NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches updated; new beam repairs

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110173 **SAP STRUCTURE NO:** 0120173 **FHWA STRUCTURE NO:** 000000000230173

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 10/25/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1002 **MILE POST:**

LOCATION: .2 MI.N.JCT.SR1780

FEATURE INTERSECTED: I-40

LATITUDE: 35° 42' 19.14" **LONGITUDE:** 81° 25' 24.74"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS (WIDENED)

SUBSTRUCTURE: E.BTS:RC CAPS/TIM.PILES&H-PILES;INT.BTS:RC POST&BEAM

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 5 / 5 **SUPERSTRUCTURE** 4 / 4 **SUBSTRUCTURE** 4 / 4 **CULVERT** N / N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: none

south approach looking north

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Juan Rodriguez		Hector Bonilla

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

01/12/2024

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110173**
(8) STRUCTURE NUMBER (FEDERAL) **0230173**
(5) INVENTORY ROUTE (ON/UNDER) ON **131010020**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **31500**
(6) FEATURE INTERSECTED **I-40**
(7) FACILITY CARRIED **SR1002**
(9) LOCATION **.2 MI.N.JCT.SR1780**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 42' 19.14"** (17) LONGITUDE **81° 25' 24.74"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Steel**
TYPE **Stringer/Multi-beam or girder** CODE **302**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **4**
(46) NUMBER OF SPANS IN APPROACH **0**
(107) DECK STRUCTURE TYPE CODE **1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1956**
(106) YEAR RECONSTRUCTED **1975**
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **4** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **4100**
(30) YEAR OF ADT **2021** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **0.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **57.0**
(49) STRUCTURE LENGTH **207.0**
(50) CURB OR SIDEWALK: LEFT **0.0** RIGHT **0.0**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **67.4**
(52) DECK WIDTH OUT TO OUT **70.0**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **58.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **27** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **67.4**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **14.8**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **8.7**
(56) MIN LAT UNDERCLEARANCE LT: **13.3**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **N**
(111) PIER PROTECTION CODE
(39) NAVIGATION VERTICAL CLEARANCE **0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR **0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE **0.0**

SUFFICIENCY RATING **61.86**
STATUS = **Structurally Deficient**

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Collector** **17**
(100) STRAHNET HIGHWAY **Not a STRAHNET Route** **0**
(101) PARALLEL STRUCTURE **No parallel structure exists** **N**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **5**
(59) SUPERSTRUCTURE **4**
(60) SUBSTRUCTURE **4**
(61) CHANNEL & CHANNEL PROTECTION **N**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **HS 15** **3**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-27** **49**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-16** **29**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **4**
(68) DECK GEOMETRY **9**
(69) UNDERCLEARANCES, VERT & HORIZ **3**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **0110**
(113) SCOUR CRITICAL BRIDGES **N**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT **8,200** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **10/23** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP B)
C) OTHER SPECIAL INSP C)
SCOUR

Structure Number **110173** County **BURKE** Run Date **01/12/2024**

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EB - LIDAR 05/30/13	1100040	16.4	119.0	1	10040	11	2	22500	2015	42.7	H	16.1	11.6	12.3	5		1	☐	☐
3	I 40 WB - LIDAR 05/30/13	1100040	15.0	119.0	1	10040	11	2	22500	2015	43.3	H	14.8	8.7	13.3	3		1	☐	☐
3	I 40 W	1100040	15.0	119.0	1	10040	11	2	25750	2019	43.3	H	14.8	8.7	13.3	3	1	1	☐	☐

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Span Number 1 **Span Length** 49.000 **Skew** 63.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	3332	Square Feet		
22	Other Bearing	Other Bearings	22	Each	Unknown	22
11	Plate Girder	Steel Open Girder/Beam	539	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	5115
2	Concrete and Metal Railing	Other Bridge Railing	98	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3430	Square Feet		

Span Number 2 **Span Length** 57.500 **Skew** 63.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
22	Other Bearing	Other Bearings	22	Each	Unknown	22
1	Standard Joint	Pourable Joint Seal	77	Feet		
2	Concrete and Metal Railing	Other Bridge Railing	116	Feet		
1	Asphalt Wearing Surface	Wearing Surface	3910	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	638	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	6017
1	Reinforced Concrete Deck	Reinforced Concrete Deck	4025	Square Feet		

Span Number 3 **Span Length** 57.500 **Skew** 63.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	3910	Square Feet		
22	Other Bearing	Other Bearings	22	Each	Unknown	22
2	Concrete and Metal Railing	Other Bridge Railing	116	Feet		
11	Plate Girder	Steel Open Girder/Beam	638	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	6017
1	Reinforced Concrete Deck	Reinforced Concrete Deck	4025	Square Feet		
1	Standard Joint	Pourable Joint Seal	77	Feet		

Span Number 4 **Span Length** 42.500 **Skew** 63.000

Superstructure Build Details

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
22	Other Bearing	Other Bearings	22	Each	Unknown	22
2	Concrete and Metal Railing	Other Bridge Railing	86	Feet		
1	Asphalt Wearing Surface	Wearing Surface	2890	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2975	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	473	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	4455
1	Standard Joint	Pourable Joint Seal	77	Feet		

Structure Element Scoring

Structure Number: **110173**

Inspection Date **10/25/2023**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	14,455	9,233	16	5,206	0
107		Steel Open Girder/Beam	Beam	2,288	2,180	22	3	83
515	107	Steel Protective Coating	Beam	21,604	21,519	0	62	23
205		Reinforced Concrete Column	Piles and Columns	21	12	2	4	3
215		Reinforced Concrete Abutment	Abutments	148	131	0	17	0
234		Reinforced Concrete Pier Cap	Caps	392	213	76	95	8
301		Pourable Joint Seal	Expansion Joints	231	211	0	20	0
316		Other Bearings	Bearing Device	88	55	6	26	1
515	316	Steel Protective Coating	Bearing Device	88	63	0	1	24
333		Other Bridge Railing	Bridge Rail	416	345	67	4	0
510		Wearing Surface	Wearing Surfaces	14,042	9,531	0	4,511	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110173** Inspection Date: **10/25/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	20 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	5202 Square Feet
3314	Steel Open Girder/Beam	Corrosion	85 Feet
3314	Steel Open Girder/Beam	Damage	3 Feet
3348	Reinforced Concrete Column	Exposed Rebar	4 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	2 Each
3348	Reinforced Concrete Column	Delamination/Spall	13 Each
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	6 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	11 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	26 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	59 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	28 Feet
3310	Pourable Joint Seal	Seal Damage	14 Feet
3334	Other Bearings	Corrosion	26 Each
3334	Other Bearings	Connection	2 Each
3334	Other Bearings	Loss of Bearing Area	1 Each
3318	Other Bridge Railing	Delamination/Spall	2 Feet
3318	Other Bridge Railing	Distortion	1 Feet
2816	Wearing Surface	Crack (Wearing Surface)	4500 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	11 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	110 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110173** Inspection Date **10/25/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	88	2288	83.000	3.000	22.000	2180.000
Beam	3342	Clean and Paint Steel	85	21604	23.000	62.000	0.000	21519.000
Bearing Device	3334	Bridge Bearing	29	88	1.000	26.000	6.000	55.000
Bearing Device	3342	Clean and Paint Steel	25	88	24.000	1.000	0.000	63.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	3	416	0.000	4.000	67.000	345.000
Deck	3326	Maintenance of Concrete Deck	5222	14455	0.000	5206.000	16.000	9233.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	14	231	0.000	20.000	0.000	211.000
Wearing Surfaces	2816	Asphalt Surface Repair	4511	14042	0.000	4511.000	0.000	9531.000
Abutments	3350	Maintenance of Concrete Wings and Wall	17	148	0.000	17.000	0.000	131.000
Caps	3348	Maintenance of Concrete Substructure	113	392	8.000	95.000	76.000	213.000
Piles and Columns	3348	Maintenance of Concrete Substructure	19	21	3.000	4.000	2.000	12.000

Priority Actions Request

Structure Number 110173

Span1

3326 Deck — Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	Span 1 Deck: (PAR) 6 inch diameter x 1 inch deep spall with exposed reinforcement. no measurable section loss. 18 inch long x 12 inch wide area of delamination along beam 8 top flange, in bay 7, at midspan.
2	Delamination/Spall	1	Span 1 Deck: (PAR) 6 inch diameter x 1/2 inch deep spall with exposed reinforcement in bay 4 near end bent 1

3314 Beam 4 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 4: (PAR) 8 inch long x full flange width x 0.55 inch remaining thickness in bottom flange with corrosion reactivating at bent 1

3314 Beam 5 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 5: (PAR) 10 inch long x 3 inch high x 3/16 inch average remaining in the web with 3 inch long x 1.5 inch corrosion hole under the diaphragm at bent 1

3314 Beam 6 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 1 Beam 6: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 3 foot x 8 inch); bottom flange (0.42 inch average remaining x 20 inch)

3314 Beam 7 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole

3314 Beam 8 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 8: (PAR) 18 inch long x up to 8 inch x 1/4 inch average remaining area of section loss in web at bent 1, spot rust present.

3318 Left Bridge Rail — Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Damage	1	Span 1 Left Bridge Rail: (PAR) impact damage to rail bracket of fourth post

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number 110173

Span2

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 3: (PAR) 10 inch long x up to 2 inch high x 5/16 inch section remaining in the web at beam end at bent 1, spot rust present

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 2 Beam 4: (PAR) at bent 1, corrosion with section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch)
2	Corrosion	3	Span 2 Beam 4: (PAR) at bent 2, corrosion with section loss: bottom flange (0.60 inch average remaining x 2.5 foot), lower web (5/16 inch average remaining x 27 inch x 2 inch), web adjacent to diaphragm (1/4 inch average remaining x 11 inch x 3 inch)
2	Damage	0	Span 2 Beam 4: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 4 and 5 at bent 1. 75 percent section remaining in the exposed reinforcement.

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 5: (PAR) active corrosion with section loss 10 inch long x 3 inch high x 1/4 inch average remaining in the web with 3 inch long x 1.25 inch high corrosion hole under the diaphragm at bent 1
2	Corrosion	1	Span 2 Beam 5: (PAR) at bent 2, corrosion with section loss: bottom flange (0.50 inch average remaining x 8 inch); web adjacent to diaphragm (3/16 inch average remaining x 11 inch x 8 inch)
2	Damage	0	Span 2 Beam 5: (PAR) 7 foot long x 10 inch high x 3 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 5 and 6 at bent 1. 70 percent section remaining in the exposed reinforcement
2	Damage	0	Span 2 Beam 5: (PAR) up to 4.5 foot long x 4 inch high x 3 inch deep spalls in south and bottom with exposed rusted reinforcement with up to 1/16 inch section loss, in the diaphragm between beams 4 and 5.

3314 **Beam 6** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 6: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 54 inch x 13 inch); bottom flange (0.56 inch average remaining x 2 foot)
2	Corrosion	1	Span 2 Beam 6: (PAR) at bent 2, corrosion with section loss: web adjacent to diaphragm (3/16 inch average remaining x 10.5 inch x 2.5 inch) with corrosion hole (1.5 inch x 1/2 inch); lower web (3/8 inch average remaining x 5.5 inch x 1 inch)
2	Damage	0	Span 2 Beam 6: (PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.

3314 **Beam 7** Plate Girder

Priority Actions Request

Structure Number **110173**

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [20 inch long x 13 inch high x 1/4 inch average remaining] with multiple corrosion holes up to [3 inch x 1 inch]
2	Corrosion	1	Span 2 Beam 7: (PAR) at bent 2, painted over section loss:: bottom flange (0.50 inch average remaining x 8 inch); lower web (3/8 inch average remaining x 5 inch x 1 inch); web adjacent to diaphragm (3/16 inch average remaining x 10 inch x 3 inch)
2	Damage	0	Span 2 Beam 7: (PAR) 2 foot x 4 inch x 3 inch deep spall with exposed rusted and debonded reinforcement on south face of end diaphragm, at bent 2
2	Damage	0	Span 2 Beam 7: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spalling, delamination with the exposed reinforcement in the concrete diaphragm between beams 7 and 8 at bent 1. 70 percent section remaining in the exposed reinforcement.

3314 **Beam 8** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 8: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch)
2	Corrosion	2	Span 2 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 14 inch x 8 inch); lower web (7/16 inch average remaining x 2 foot x 3 inch)
2	Connection	1	Span 2 Beam 8 - Far Bearing 8: [PAR] West face anchor bolt not visible within nut

3318 **Left Bridge Rail** Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	1	Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact

Span3

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 3 Beam 4: (PAR) at bent 2, corrosion with section loss: bottom flange (0.56 inch average remaining x 9 inch), lower web (3/16 inch average remaining x 6 foot x 2 inch), web adjacent to diaphragm (3/16 inch average remaining x 12 inch x 2 inch)
2	Corrosion	2	Span 3 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)
2	Damage	0	Span 3 Beam 4: (PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number **110173**

2	Corrosion	3	Span 3 Beam 5: (PAR) at bent 2, corrosion with section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with arrested hole (1.5 inch x 1 inch)
2	Corrosion	2	Span 3 Beam 5: (PAR) at bent 3, corrosion with section loss: bottom flange (0.45 inch average remaining x 1 foot); web (1/4 in average remaining x 2 foot x 9 inch)
2	Loss of Bearing Area	1	Span 3 Near Bearing 5: (PAR) loss of bearing area (up to 1/2 inch x 3 inch)
2	Damage	0	Span 3 Beam 5: (PAR) 7 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 5 and 6 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.

3314 **Beam 6** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 6: (PAR) at bent 2, corrosion with section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot)
2	Corrosion	2	Span 3 Beam 6: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot)

3314 **Beam 7** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 3 Beam 7: (PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 4.5 foot x 16 inch)
2	Corrosion	1	Span 3 Beam 7: (PAR) at bent 3, corrosion with section loss: web adjacent to diaphragm (3/8 inch average remaining x 10 inch x 5 inch)
2	Connection	1	Span 3 Near Bearing 7: (PAR) east weld between sole and masonry plate, broken

3314 **Beam 8** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 8: (PAR) at bent 2, corrosion with section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch)
2	Corrosion	3	Span 3 Beam 8: (PAR) at bent 3, corrosion with section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch)
2	Damage	1	Span 3 Beam 8: (PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.

Span4

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 5.5 foot x 10 inch) with corrosion holes (up to 1 inch x 1/2 inch); bottom flange (0.45 inch average remaining x 4 foot)

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number **110173**

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 4 Beam 5: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 6 foot x 1 foot) with corrosion holes (6 inch x 1.5 inch); bottom flange (0.56 inch average remaining x 15 inch)

3314 **Beam 6** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 4 Beam 6: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 32 inch x 12 inch)

3314 **Beam 7** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	8	Span 4 Beam 7: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch)

3314 **Beam 8** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 4 Beam 8: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch)
2	Damage	0	Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	9	Bent 1 Cap 1: (PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 1 Pile 3: (PAR) 34 inch high x 10 inch wide x up to 2 inch deep spall with exposed rusted reinforcement.

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number 110173

Bent 2

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 2 Cap 1: (PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6
2	Exposed Rebar	2	Bent 2 Cap 1: (PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar
2	Exposed Rebar	8	Bent 2 Cap 1: (PAR) south face, in bay 6, spall/delamination (8 foot x 4 foot x 1.5 inch deep) with exposed rusted rebar (approximately 75 percent remaining) and cracks (up to 1/16 inch)
2	Exposed Rebar	5	Bent 2 Cap 1: [PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 3: (PAR) Southeast corner 5 foot from the ground, delamination/spall [28 inch wide x 9.5 foot x up to 4 inch deep] with [1] primary exposed rusted reinforcing [75 percent remaining]

3348 **Pile 4** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars

3348 **Pile 5** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 5: (PAR) Southwest corner below cap, delamination/spall [7 foot high x up to full width x up to 3 inch deep] with two exposed rusted reinforcing, 70 percent section remaining in the exposed reinforcement.

Bent 3

3348 **Pile 3** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 3: (PAR) Southeast corner above barrier rail, spall/delamination [10 foot high x up to full width x up to 4 inch deep] with primary debonded exposed rusted reinforcing 75 percent remaining

3348 **Pile 5** Reinforced Concrete Column

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number **110173**

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 5: (PAR) 6.5 foot high x 20 inch wide x 3.5 inch deep spall and delaminated concrete with one debonded primary exposed reinforcement on south east corner of pile. 80 percent section remaining in exposed reinforcement.

Approach Guardrail and Barriers

3120 **Approach Guardrail and Barriers** Approach Guardrail and Barriers

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northwest guardrail attachment, improper lap
2		13	(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)
2		1	(PAR) southeast guardrail attachment, improper lap
2		9	(PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)
2		50	(PAR) along end bent 1 slope protection, homeless debris (full length)
2		50	(PAR) along end bent 2 slope protection, homeless debris (full length)

Element Condition and Maintenance Data

Structure Number: **110173** Inspection Date: **10/25/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	3,430	2,214	12	1,204	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random	3	1,200	1,200	Square Feet
☑ 12	Delamination/Spall	(PAR) 6 inch diameter x 1 inch deep spall with exposed reinforcement. no measurable section loss. 18 inch long x 12 inch wide area of delamination along beam 8 top flange, in bay 7, at midspan.	3	3	3	Square Feet
☑ 12	Delamination/Spall	(PAR) 6 inch diameter x 1/2 inch deep spall with exposed reinforcement in bay 4 near end bent 1	3	1	1	Square Feet
☑ 12	Cracking (RC and Other)	left overhang, at bent 1, delamination (2 foot x 6 inch)	2	2	2	Square Feet
☑ 12	Delamination/Spall	(2) up to 2 foot wide x 12 inch long areas of delamination in deck underside, bay 3, near midspan.	2	4	4	Square Feet
☑ 12	Delamination/Spall	underside of deck, bay 2, at end bent 1 and midspan, (2) delaminations (up to 3 foot x 1 foot)	2	6	6	Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) 2 - hairline full width transverse cracks in underside of deck in bay 4, scattered. typical for bay 5.	1			Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) 4 - up to 1/16 inch wide full width transverse cracks in underside of deck in bay 2, scattered.	1			Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) 7 - hairline full width transverse cracks in underside of deck in bay 3.	1			Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) 7 - up to 1/16 inch wide full width transverse cracks in underside of deck in bay 1, scattered.	1			Square Feet

General Comments

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	49	48	0	0	1	Feet
515	Steel Protective Coating	465	464	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 107	Corrosion	(PAR) 8 inch long x full flange width x 0.55 inch remaining thickness in bottom flange with corrosion reactivating at bent 1	4	1	1	Feet
☑ 107	Damage	6 inch x 4 inch x full depth spall with exposed reinforcement and up to 1/8 inch wide x 7 foot long longitudinal crack along the south face of the diaphragm near the bottom between beams 4 and 5 at bent 1	3			Feet
☑ 107	Corrosion	at bent 1, painted over pitting up to 1/16 inch x 12 inch x 7 inch with corrosion reactivating	2			Feet
☑ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	49	48	0	0	1	Feet
515	Steel Protective Coating	465	464	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) 10 inch long x 3 inch high x 3/16 inch average remaining in the web with 3 inch long x 1.5 inch corrosion hole under the diaphragm at bent 1	4	1	1	Feet
☑ **107**	Damage	multiple up to 1/8 inch wide x up to full length longitudinal cracks along the south face of the diaphragm near the bottom between beams 5 and 6 at bent 1	3			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Beam 6

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	49	46	0	0	3	Feet
515	Steel Protective Coating	465	461	0	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 3 foot x 8 inch); bottom flange (0.42 inch average remaining x 20 inch) with corrosion reinitiated	4	3	3	Feet
☑ **107**	Damage	up to 1/8 inch wide x 7 foot long longitudinal crack along the south face of the diaphragm near the bottom between beams 6 and 7 at bent 1	3			Feet
☑ **107**	Corrosion	(combined with other notes 2023) bent 1 active corrosion with section loss, bottom flange [20 inch long x full flange width x 0.5 inch average remaining]	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4	Square Feet

General Comments

Span 1 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	49	48	0	0	1	Feet
515	Steel Protective Coating	465	464	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole	4	1	1	Feet
☑ **107**	Damage	diaphragm between beams 7 and 8 at bent 1, spall/delamination [full width x up to 6 inch high x up to 3 inch deep]	3			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	49	47	0	0	2	Feet
515	Steel Protective Coating	465	463	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) 18 inch long x up to 8 inch x 1/4 inch average remaining area of section loss in web at bent 1, spot rust present.	4	2	2	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	2	2	Square Feet

General Comments

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	3,332	2,324	0	1,008	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)	3	1,000	1,000	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	7 foot long x 16 foot wide x 1 inch deep failed/depressed patch in center of southbound lane near end bent 1	3	7	7	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	left shoulder of asphalt over end bent 1, pothole/broken asphalt [6 foot x 8 inch x up to 1 inch deep]	3	1	1	Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) 9 - up to 1/8 inch wide x 3 foot long transverse cracks, scattered, in southbound left lanes and left shoulder	1			Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	49	38	10	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Connection	(PAR) impact damage to rail bracket of fourth post	3	1		Feet
☑ **333**	Damage	fourth post, impact damage	3			Feet
☑ **333**	Cracking (RC and Other)	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	10		Feet

General Comments

Span 1 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	49	44	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	5		Feet
☑ **333**	Damage	(2023 moved to general notes) moderate to heavy impact damage and moderate to heavy corrosion for 11 foot starting at southeast guardrail transition	1			Feet

General Comments

Span 1 — Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **316**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each

General Comments

Span 1 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining. west anchor bolt nut 60 percent remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 perent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Near Bearing 11

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 2 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	4,025	2,525	0	1,500	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random	3	1,500	1,500	Square Feet

☑ **12**	Cracking (RC and Other)	(combined with other notes 2023) 2 - hairline transverse full width cracks in deck underside, bay 1, at both interior diaphragms.	1		Square Feet
☑ **12**	Cracking (RC and Other)	(combined with other notes 2023) 2 - hairline transverse full width cracks in deck underside, bay 3, at both interior diaphragms.	1		Square Feet
☑ **12**	Cracking (RC and Other)	(Moved to wearing service 10/26/21) 5 - up to 1/8 inch wide x 3 foot long transverse cracks, scattered in southbound left lane.	1		Square Feet

General Comments

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	57	0	0	1	Feet
515	Steel Protective Coating	547	545	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) 10 inch long x up to 2 inch high x 5/16 inch section remaining in the web at beam end at bent 1, spot rust present	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	2	2	Square Feet

General Comments

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	50	0	0	8	Feet
515	Steel Protective Coating	547	537	0	10	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch) with corrosion reinitiated	4	5	5	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 2.5 foot), lower web (5/16 inch average remaining x 27 inch x 2 inch), web adjacent to diaphragm (1/4 inch average remaining x 11 inch x 3 inch) with corrosion reinitiated	4	3	3	Feet
☑ **107**	Damage	(PAR) 7 foot long x 4 inch high x 4 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 4 and 5 at bent 1. 75 percent section remaining in the exposed reinforcement.	4			Feet
☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 8 inch long x full flange width x 0.55 inch section remaining in bottom flange at bent 1.	1			Feet

☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	10	10	Square Feet

General Comments

Span 2 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	56	0	0	2	Feet
515	Steel Protective Coating	547	545	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) active corrosion with section loss 10 inch long x 3 inch high x 1/4 inch average remaining in the web with 3 inch long x 1.25 inch high corrosion hole under the diaphragm at bent 1	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); web adjacent to diaphragm (3/16 inch average remaining x 11 inch x 8 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Damage	(PAR) 7 foot long x 10 inch high x 3 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 5 and 6 at bent 1. 70 percent section remaining in the exposed reinforcement	4			Feet
☑ **107**	Damage	(PAR) up to 4.5 foot long x 4 inch high x 3 inch deep spalls in south and bottom with exposed rusted reinforcement with up to 1/16 inch section loss, in the diaphragm between beams 4 and 5.	3			Feet
☑ **107**	Corrosion	(combined with other notes 2023) at bent 2 active corrosion with section loss, bottom flange at bearing [full width x 2 inch x average remaining 5/8 inch]	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) substantially effective freckled corrosion initiated	1			Square Feet

General Comments

Span 2 Beam 6

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	52	0	0	6	Feet
515	Steel Protective Coating	547	541	0	6	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 54 inch x 13 inch); bottom flange (0.56 inch average remaining x 2 foot) with corrosion reinitiated	4	5	5	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 10.5 inch x 2.5 inch) with corrosion hole (1.5 inch x 1/2 inch); lower web (3/8 inch average remaining x 5. 5 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet

☑ **107**	Damage	(PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.	4			Feet
☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 24 inch long x full flange width x 0. 45 inch remaining thickness in bottom flange at bent 1.	1			Feet
☑ **107**	Corrosion	(combined with other notes 2023) active spot rust along web at bent 2	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	6	6	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) spot rust	1			Square Feet

General Comments

Span 2 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	55	0	0	3	Feet
515	Steel Protective Coating	547	544	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1 active corrosion with section loss, web at diaphragm [20 inch long x 13 inch high x 1/4 inch average remaining] with multiple corrosion holes up to [3 inch x 1 inch]	4	2	2	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); lower web (3/8 inch average remaining x 5 inch x 1 inch); web adjacent to diaphragm (3/16 inch average remaining x 10 inch x 3 inch)	4	1	1	Feet
☑ **107**	Damage	(PAR) 7 foot long x 4 inch high x 4 inch wide area of spalling, delamination with the exposed reinforcement in the concrete diaphragm between beams 7 and 8 at bent 1. 70 percent section remaining in the exposed reinforcement.	4			Feet
☑ **107**	Damage	(PAR) 2 foot x 4 inch x 3 inch deep spall with exposed rusted and debonded reinforcement on south face of end diaphragm, at bent 2	3			Feet
☑ **107**	Corrosion	(combined with other notes 2023) 12 inch long x full flange width x 0.5 inch thickness remaining in the bottom flange at bent 2. no active corrosion.	1			Feet
☑ **107**	Damage	(combined with other notes 2023) 7 foot long x 1/8 inch wide crack in the north face of the diaphragm between beams 6 and 7.	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	3	3	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) corrosion with section loss	1			Square Feet

General Comments

Span 2 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	54	0	0	4	Feet
515	Steel Protective Coating	547	543	0	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated	4	2	2	Feet
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 14 inch x 8 inch); lower web (7/16 inch average remaining x 2 foot x 3 inch)	4	2	2	Feet
☑ **107**	Damage	(combined with beam 7 notes 2023) end diaphragm between beams 7 and 8, spall [full length x 14 inch x up to 3 inch deep] with exposed rusted reinforcing up to 1/16 inch section loss	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4	Square Feet

General Comments

Span 2 Expansion Joint at Bent 1

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	77	75	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	southbound turn lane, missing seal material (2 foot x 9 inch x full depth)	3	2	2	Feet

General Comments

Span 2 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	3,910	2,407	0	1,503	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)	3	1,500	1,500	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	at right Southbound lane adjacent to joint over bent 2, unsound patch/pothole [32 inch x 10 inch x full depth]	3	3	3	Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 3 foot long transverse and longitudinal cracks, scattered in southbound left lane.	1			Square Feet

☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 3 foot long transverse and longitudinal cracks, scattered, in right shoulder.	1		Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in left shoulder.	1		Square Feet

General Comments

Span 2 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	58	47	10	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Damage	3rd post from bent 1, impact damage	3			Feet
☑ **333**	Distortion	(PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact	3	1	1	Feet
☑ **333**	Cracking (RC and Other)	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	10		Feet

General Comments

Span 2 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	58	52	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	6		Feet

General Comments

Span 2 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 75 percent section remaining	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 75 percent section remaining	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	pack rust/ corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	corrosion with section loss (up to 1/8 inch loss) on masonry plate and sole plate	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	rust scale	2	1		Each

☑	**515**	Effectiveness (Steel Protective Coatings)	rust scale		4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active pack rust arrested when painted. Section loss in masonry and sole plates with 75 percent remaining.	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	arrested pack rust and section loss in masonry plate. 80 percent section remaining.	3	1	1	Each

General Comments

Span 2 — Far Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Connection	[PAR] West face anchor bolt not visible within nut	3	1	1	Each

General Comments

Span 3 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	4,025	2,521	4	1,500	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random	3	1,500	1,500	Square Feet
☑ **12**	Delamination/Spall	at bent 3, both overhangs, (2) delaminations (up to 1. 5 foot x 6 inch)	2	4	4	Square Feet

General Comments

Span 3 — Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	56	2	0	0	Feet
515	Steel Protective Coating	547	546	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web, rust scale (10 inch)	2	1		Feet
☑ **107**	Damage	impact damage	2			Feet

☑ **107**	Distortion	(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes	2	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1		1	Square Feet

General Comments

Span 3 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	57	1	0	0	Feet
515	Steel Protective Coating	547	547	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	painted impact damage	2			Feet
☑ **107**	Distortion	2023 new paint repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes	2	1		Feet

General Comments

Span 3 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	57	1	0	0	Feet
515	Steel Protective Coating	547	547	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	painted impact damage	2			Feet
☑ **107**	Distortion	2023 new paint repair; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes	2	1		Feet

General Comments

Span 3 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	49	1	2	6	Feet
515	Steel Protective Coating	547	539	0	8	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: bottom flange (0.56 inch average remaining x 9 inch), lower web (3/16 inch average remaining x 6 foot x 2 inch), web adjacent to diaphragm (3/16 inch average remaining x 12 inch x 2 inch) with corrosion reinitiated	4	6	6	Feet

☑ **107**	Damage	(PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.	4			Feet
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)	3	2	2	Feet
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: scattered scrapes	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	8	8	Square Feet

General Comments

Span 3 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	53	0	0	5	Feet
515	Steel Protective Coating	547	542	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with hole (1.5 inch x 1 inch) with corrosion reinitiated	4	3	3	Feet
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: bottom flange (0.45 inch average remaining x 1 foot); web (1/4 in average remaining x 2 foot x 9 inch) with corrosion reinitiated	4	2	2	Feet
☑ **107**	Damage	(PAR) 7 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 5 and 6 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.	4			Feet
☑ **107**	Damage	7 foot x 4 inch delamination with cracks up to 1/8 inch in south face end diaphragm at bent 3	3			Feet
☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 22 inch long x full flange width x 0. 34 inch section remaining in bottom flange, starting at beam end, bent 3.	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	Square Feet

General Comments

Span 3 Beam 6

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	55	0	0	3	Feet
515	Steel Protective Coating	547	544	0	3	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot) with corrosion reinitiated	4	2	2	Feet
☑ **107**	Damage	spall/delamination 7 foot x 10 inch x 2 inch deep with exposed rusted rebar in north face of end diaphragm between beams 6 and 7 at bent 2	3			Feet
☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 20 inch long x full flange width x up to 0.33 inch section remaining in bottom flange, starting at beam end	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	3	3	Square Feet

General Comments

Span 3 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	49	3	0	6	Feet
515	Steel Protective Coating	547	541	0	1	5	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 4.5 foot x 16 inch)	4	5	5	Feet
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Damage	multiple up to 3 foot long horizontal 1/8 inch wide cracks in end diaphragm between beams 7 and 8 at bent 2 starting at beam 8	3			Feet
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	over right westbound lane, impact scrapes	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	over right westbound lane, impact scrapes	4	5	5	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 3 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	49	5	0	4	Feet
515	Steel Protective Coating	547	536	0	1	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch)	4	3	3	Feet
☑ **107**	Damage	(PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.	4			Feet
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	over right westbound lane, impact scrapes with distortion	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	over right westbound lane, impact scrapes	4	10	10	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 3 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	57	1	0	0	Feet
515	Steel Protective Coating	547	547	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/4 inch deep at 18 foot-7 inch from interior. bent 3	2	1		Feet

General Comments

Span 3 Beam 10

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	57	1	0	0	Feet
515	Steel Protective Coating	547	547	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/2 inch deep at 18 foot-8 inch from interior. bent 3 . scattered scrapes along the web .	2	1		Feet

General Comments

Span 3 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	58	51	7	0	0	Feet
515	Steel Protective Coating	547	546	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, top flange, surface rust/rust scale (1 foot)	2	1		Feet
☑ **107**	Damage	repaired impact damage	2			Feet
☑ **107**	Distortion	2023 new repair (beam heat straightened and coverplate rewelded); previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2 inch lateral up to 1/2 inch with broken cover plate weld [10 inch long]. new area of impact damage 6 inch long x 2 inch high at 13 foot-5 inch out from interior. bent 3 . with the bottom cover plate being broken loose from bottom flange 10 inch long x 2 inch deep . there are also two older 1/2 inch indentions in the same area . Beam 11 is swept westward up to 1 1/2 inch. (par) there is a 2 inch diameter torch cut hole at both ends of of the 6 foot length .	2	6		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 3 Expansion Joint at Bent 2

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	77	71	0	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Adhesion	along the length of the joint, adhesion loss (up to 1/8 inch wide x 2.5 foot x 3/4 inch deep) at random	3	6		Feet

General Comments

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	3,910	2,910	0	1,000	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)	3	1,000	1,000	Square Feet

☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in left shoulder.	1		Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in right shoulder.	1		Square Feet

General Comments

Span 3 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	58	45	13	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	13		Feet

General Comments

Span 3 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	58	49	9	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	adjacent to rail post 6, hairline map cracking	2	3		Feet
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	6		Feet

General Comments

Span 3 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining	3	1	1	Each
☑ **316**	Loss of Bearing Area	(PAR) loss of bearing area (up to 1/2 inch x 3 inch)	2		1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	corrosion has been arrested when painted, 75 percent section remaining in masonry and sole plate. west anchor bolt has 25 percent section remaining, no nut present	3	1	1	Each

General Comments

Span 3 — Near Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active corrosion and section loss in sole and masony plates. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	corrosion has been arrested when painted, 75 percent section remaining in masonry and sole plate. west anchor bolt nut has 20 percent section remaining	3	1	1	Each

General Comments

Span 3 — Near Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	0	1	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Connection	(PAR) east weld between sole and bottom flange plate, broken	4	1	1	Each
☑ **316**	Corrosion	arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3		1	Each

General Comments

Span 3 — Far Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 Far Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	corrosion has been arrested when painted, up to 75 percent section remaining in masonry and sole plate. west anchor bolt nut has up to 80 percent section remaining.	3	1	1	Each

General Comments

Span 4 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,975	1,973	0	1,002	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) some with efflorescence at random	3	1,000	1,000	Square Feet
☑ **12**	Delamination/Spall	2 foot long x 6 inch wide x up to 1/2 inch deep area of delamination/spall in deck underside of bay 10, 15 foot from end bent 2.	3	2	2	Square Feet
☑ **12**	Cracking (RC and Other)	(combined with other notes 2023) three (3) up to 1/16 inch wide full width transverse cracks in underside of deck in bay 2, scattered.	1			Square Feet

☑ **12**	Cracking (RC and Other)	(combined with other notes 2023) up to 1/16 inch wide full width transverse crack in deck underside, bay 6, at the intermediate diaphragm.	1		Square Feet
☑ **12**	Cracking (RC and Other)	2 - up to 1/16 inch wide full width transverse cracks in underside of deck in bay 1, scattered.	1		Square Feet
☑ **12**	Cracking (RC and Other)	multiple up to 1/16 inch wide full width transverse cracks in underside of deck in bay 3 scattered, some with efflorescence	1		Square Feet
☑ **12**	Efflorescence/Rust Staining	(combined with other notes 2023) hairline full width transverse crack with light efflorescence in underside of deck in bay 8, 10 foot from end bent 2.	1		Square Feet

General Comments

Span 4 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	37	0	0	6	Feet
515	Steel Protective Coating	405	405	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 5.5 foot x 10 inch) with corrosion holes (up to 1 inch x 1/2 inch); bottom flange (0.45 inch average remaining x 4 foot)	4	6	6	Feet
☑ **107**	Damage	7 foot long x 8 inch wide x 4 inch along north face and 8 in along bottom face area of delamination and unsound concrete in end diaphragm at bent 3 between beams 4 and 5.	3		1	Feet
☑ **107**	Corrosion	(combined with other notes 2023) 2 foot long from beam end x full flange width x 0.24 inch remaining in bottom flange, at bent 3. no active corrosion present.	1			Feet

General Comments

Span 4 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	37	0	1	5	Feet
515	Steel Protective Coating	405	404	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 6 foot x 1 foot) with corrosion holes (6 inch x 1.5 inch); bottom flange (0. 56 inch average remaining x 15 inch) with corrosion reinitiated	4	5	5	Feet
☑ **107**	Damage	4 foot x 6 inch long x 8 inch wide x 5 inch along north and bottom faces area of delamination and unsound concrete in end diaphragm at bent 3 between beams 5 and 6.	3	1	1	Feet

☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 8 inch long from beam end x full flange width x 3/8 inch section remaining in bottom flange, at bent 3	1				Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1		Square Feet

General Comments

Span 4 Beam 6

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	39	0	0	4	Feet
515	Steel Protective Coating	405	404	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 32 inch x 12 inch) with corrosion reinitiated	4	4	4	Feet
☑ **107**	Damage	32 inch long x 10 inch wide x 5 inch along north and bottom faces area of delamination and unsound concrete in end diaphragm at bent 3 between beams 6 and 7.	3		1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 4 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	35	0	0	8	Feet
515	Steel Protective Coating	405	397	0	8	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch) with corrosion reinitiated	4	8	8	Feet
☑ **107**	Corrosion	(combined with other notes 2023) active corrosion with section loss 28 inch long x full flange width x 0. 34 inch remaining thickness in bottom flange, starting at beam end.	1			Feet
☑ **107**	Damage	(combined with beam 8 notes 2023) 6 foot x 1 foot x 3 inch deep spall with exposed reinforcement, 75 percent remaining on north bottom corner of end diaphragm at bent 3	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	8	8	Square Feet

General Comments

Span 4 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	39	0	0	4	Feet
515	Steel Protective Coating	405	401	0	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) with corrosion reinitiated	4	4	4	Feet
☑ **107**	Damage	(PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.	4			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4	Square Feet

General Comments

Span 4 Expansion Joint at Bent 3

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	77	65	0	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random	3	12	12	Feet

General Comments

Span 4 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	2,890	1,890	0	1,000	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/8 inch x 40 foot)	3	1,000	1,000	Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) at both shoulders at end bent 2, transverse cracks [up to 2 foot x up to 3/4 inch wide] with vegetation and debris accumulation	1			Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in left shoulder.	1			Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 6 foot long transverse and longitudinal cracks, scattered, in right shoulder.	1			Square Feet

☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x up to 5 foot long transverse and longitudinal cracks, scattered, in southbound left lane.	1		Square Feet
☑ **510**	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch x 2 foot long transverse and longitudinal cracks, scattered, in northbound left lane.	1		Square Feet

General Comments

Span 4 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	43	33	8	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Delamination/Spall	at end bent 2, (2) spalls (up to 5 inch x 4 inch x 1.5 inch deep) exposed reinforcement. no measureable section loss.	3	2	2	Feet
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	8		Feet
☑ **333**	Damage	(2023 moved to general notes) guardrail at northwest end terminal has been fixed since last inspection. wood posts and spacer blocks have been replaced	1			Feet

General Comments

Span 4 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	43	37	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	along the length of parapet, vertical cracks (up to 1/32 x full height) at random	2	6		Feet

General Comments

Span 4 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 6

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 7

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**316**	Corrosion	active corrosion and section loss in masonry plate and sole plate. 80 percent section remaining. both anchor bolt nuts have up to 40 percent section remaining	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 8

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	corrosion has been arrested when painted, 75 percent section remaining in masonry plate and sole plate. both anchor bolt nuts have up to 50 percent section remaining.	3	1	1	Each

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	74	63	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	along the length of the abutment, adjacent to beam bottom flanges, spall/delaminations (up to 9 inch x 4 inch x 4 inch deep) with cracks (up to 1/8 inch)	3	11	11	Feet
☑ **215**	Cracking (RC and Other)	(combined with other notes 2023) up to 1/8 inch wide x 9 inch long crack in backwall at beam 4, bay 3.	1			Feet
☑ **215**	Cracking (RC and Other)	(combined with other notes 2023) up to 1/8 inch wide x 9 inch long crack in backwall at beam 5, bay 4.	1			Feet
☑ **215**	Cracking (RC and Other)	(combined with other notes 2023) up to 1/8 inch wide x 9 inch long crack in backwall at beam 6, bay 5.	1			Feet
☑ **215**	Delamination/Spall	(combined with other notes 2023) 16 inch long x 4 inch high x up to 4 inch deep spall in backwall at beam 7, bay 6.	1			Feet

General Comments

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	82	59	22	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	11 inch high x 7 inch wide x up to 1 inch deep spall with exposed rusted rebar in north face of cap at beam 4.	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	scattered along length of cap, multiple vertical cracks [15 inch long x up to 1/32 inch]	2	20		Feet
☑ **234**	Cracking (RC and Other)	west end, map cracks (hairline x 1.5 foot x full height)	2	2		Feet

General Comments

Bent 1 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	76	34	0	42	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	15 foot long x 12 inch delamination with cracks up to 1/8 inch between beams 5 and 7 on south face of the cap.	3	15	15	Feet
☑ **234**	Cracking (RC and Other)	5 foot long x 21 inch high area of delaminated concrete with cracks up to 1/16 inch between beams 7 and 8 in the north face of cap near top.	3	5	5	Feet
☑ **234**	Cracking (RC and Other)	5 foot x full width delamination with cracks up to 1/16 inch in the underside of the cap between columns 4 and 5. 1/16 inch wide vertical crack in the north face of the cap between columns 4 and 5.	3	5	5	Feet
☑ **234**	Cracking (RC and Other)	north face, below beam 5, delamination/spall [4 foot x 1 foot x 1/2 inch]	3	4	4	Feet
☑ **234**	Delamination/Spall	1 foot long x full width of cap area of delaminated concrete with cracks up to 1/8 inch extends 1 foot into north face between columns 5 and 6.	3	1	1	Feet
☑ **234**	Delamination/Spall	35 inch long x 16 inch high x up to 1.5 inch deep area of delamination and spall in north face at beam 4 with exposed reinforcement. no measurable section loss.	3	3	3	Feet
☑ **234**	Exposed Rebar	(PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area	3	9	9	Feet
☑ **234**	Cracking (RC and Other)	north face, under beam 6, horizontal crack [19 inch x 1/32 inch]	2			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) up to 1/2 inch wide crack on underside of cap at the construction joint	1			Feet

General Comments

Bent 1 Pile 3

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Delamination/Spall	(PAR) 34 inch high x 10 inch wide x up to 2 inch deep spall with exposed rusted reinforcement.	3	1	1	Each

General Comments

Bent 1 — Pile 4

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	North face at top of the column, delamination [31 inch x 10 inch wide] with cracks [up to 1/8 inch]	3	1	1	Each

General Comments

End Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	74	68	0	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	(2023 unable to verify due to homeless encampment) up to 1/8 inch wide x 9 inch long crack in backwall at beam 3, bay 2. similar condition at beam 4-8.	3	6	6	Feet

General Comments

End Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	82	42	40	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	(2023 unable to verify due to homeless encampment) multiple vertical cracks [up to 15 inch x up to 1/32 inch wide] scattered along cap	2	25		Feet
☑ **234**	Cracking (RC and Other)	(2023 unable to verify due to homeless encampment) scattered areas of hairline map cracking along face of cap	2	15		Feet

General Comments

Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	76	32	8	28	8	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Exposed Rebar	(PAR) south face, in bay 6, spall/delamination (8 foot x 4 foot x 1.5 inch deep) with exposed rusted rebar (approximately 75 percent remaining) and cracks (up to 1/16 inch)	4	8	8	Feet
☑ **234**	Cracking (RC and Other)	10 foot x 1/16 inch horizontal crack in north face of cap under bays 5 and 6	3	10	10	Feet

☑ **234**	Delamination/Spall	4 foot long x 18 inch x 1 inch high spall/delamination concrete in south face near the top between beams 7 and 8.	3	4	4	Feet
☑ **234**	Delamination/Spall	4 foot x up to 20 inch x 1 inch deep high area of delaminated concrete in south face between beams 4 and 5.	3	4	4	Feet
☑ **234**	Delamination/Spall	under beam 5, spall [14 inch x 4 inch x 1 inch deep] with coarse aggregate exposed, undermining bearing 1/2 inch	3	1	1	Feet
☑ **234**	Exposed Rebar	(PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6	3	2	2	Feet
☑ **234**	Exposed Rebar	(PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar	3	2	2	Feet
☑ **234**	Exposed Rebar	[PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining	3	5	5	Feet
☑ **234**	Cracking (RC and Other)	4 foot long x 1/32 inch wide horizontal crack on north face of cap under beam 7	2	4		Feet
☑ **234**	Delamination/Spall	between columns 3 and 4, 4 foot long x full width delamination in the bottom face extending into vertical faces of concrete	2	4	4	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) 4 foot long longitudinal hairline cracks in south face near top of cap between beams 6 and 7.	1			Feet
☑ **234**	Exposed Rebar	(combined with other notes 2023) 1 foot long x 2 foot wide area of delaminated concrete with exposed reinforcement. no measurable section loss in the exposed reinforcement.	1			Feet

General Comments

Bent 2 Pile 3

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	0	1	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Exposed Rebar	(PAR) Southeast corner 5 foot from the ground, delamination/spall [28 inch wide x 9.5 foot x up to 4 inch deep] with [1] primary exposed rusted reinforcing [75 percent remaining]	4	1	1	Each
☑ **205**	Delamination/Spall	southwest corner, below cap, spall/delamination (36 inch x 10 inch x 1 inch deep)	3		1	Each

General Comments

Bent 2 Pile 4

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Cracking (RC and Other)	below cap, northeast and southeast corners, (2) delaminations (up to 3.5 foot x 10 inch) with cracks (1/4 inch)	3		1	Each
☑ 205	Delamination/Spall	(PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars	3	1	1	Each

General Comments

Bent 2 Pile 5

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	0	1	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Exposed Rebar	(PAR) Southwest corner below cap, delamination/spall [7 foot high x up to full width x up to 3 inch deep] with two exposed rusted reinforcing, 70 percent section remaining in the exposed reinforcement.	4	1	1	Each
☑ 205	Delamination/Spall	3 foot from ground, west and south faces, (2) spalls/delaminations (up to 1 foot x 19 inch x 1.5 inch deep) with exposed rusted rebar	3		1	Each

General Comments

Bent 2 Pile 7

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Cracking (RC and Other)	north and west faces, map cracks (hairline x 1 foot x full width)	2	1		Each

General Comments

Bent 3 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	76	46	6	24	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **234**	Cracking (RC and Other)	4 foot long x 8 inch high area of up to 1/16 inch wide cracks and delamination on north face under bay 5	3	4	4	Feet
☑ **234**	Cracking (RC and Other)	North face under bay 7, delamination 6 foot long x up to 1 foot x 4 inch x 1 inch deep in and has up to 1/8 inch wide cracks	3	6	6	Feet
☑ **234**	Cracking (RC and Other)	south face, in bays 4 and 5, multiple spalls/delaminations (up to 5 foot x 2 foot x 1.5 inch deep) with exposed rusted rebar	3	10	10	Feet
☑ **234**	Delamination/Spall	10 inch x 5 inch x 1 inch deep spall with exposed reinforcement in south face between beams 6 and 7. 90 pecent section remaining in exposed reinforcement.	3	1	1	Feet
☑ **234**	Delamination/Spall	12 inch high x 9 inch wide x 1.5 inch deep with exposed reinforcement under beam 7, south face. 90 percent section remaining in exposed reinforcement.	3	1	1	Feet
☑ **234**	Delamination/Spall	12 inch x 4 inch x 1/2 inch deep spall with exposed reinforcement on east face of top radius at pile 5	3	1	1	Feet
☑ **234**	Delamination/Spall	North face under beam 4, spall [1 foot x 6 inch x 1/2 inch deep] no undermining	3	1	1	Feet
☑ **234**	Delamination/Spall	5 foot x up to full height area of cracked delamination on south face of cap below beam 8	2	6	6	Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) 3 foot long x 1 foot high area of delaminated concrete in south face between beams 5 and 6.	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) bottom of South face below bay 5, spall [14 inch x 10 inch x up to 1 inch deep] with exposed rusted reinforcing 90 percent remaining	1			Feet

General Comments

Bent 3 Pile 3

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	0	1	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Exposed Rebar	(PAR) Southeast corner above barrier rail, spall/delamination [10 foot high x up to full width x up to 4 inch deep] with primary debonded exposed rusted reinforcing 75 percent remaining	4	1	1	Each
☑ **205**	Delamination/Spall	east face 12 inch high x 6 inch wide x 1 inch deep spall with exposed reinforcement	3		1	Each
☑ **205**	Delamination/Spall	3 foot high x 10 inch wide area of delamination and unsound concrete in north face. up to 43 inch high x 19 inch wide area of delamination and unsound concrete in east face.	2		1	Each
☑ **205**	Delamination/Spall	4 foot high x 12 inch wide area of delamination and unsound concrete in north face. similar condition in west face.	2		1	Each

General Comments

Bent 3 Pile 4

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Delamination/Spall	29 inch wide x height varying from 18 inch to 45 inch area of delamination on west face. 3 foot high x 12 inch wide area of delamination in south face. 3 foot high x 12 inch wide area of delamination in north face.	2		3	Each
☑ 205	Delamination/Spall	3 foot high x 10 inch wide area of delamination and unsound concrete at southeast corner.	2		1	Each
☑ 205	Delamination/Spall	3 foot high x 12 inch wide area of delamination and unsound concrete at northeast corner.	2	1	1	Each

General Comments

Bent 3 Pile 5

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Delamination/Spall	4 foot high x 16 inch wide area of delamination/spall and unsound concrete at northeast corner.	3		1	Each
☑ 205	Exposed Rebar	(PAR) 6.5 foot high x 20 inch wide x 3.5 inch deep spall and delaminated concrete with one debonded primary exposed reinforcement on south east corner of pile. 80 percent section remaining in exposed reinforcement.	3	1	1	Each
☑ 205	Exposed Rebar	(combined with other notes 2023) underside of corbel, 12 inch long x 3 inch wide x 1/2 inch deep spall with exposed reinforcement. 90 percent section remaining in exposed reinforcement.	1			Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3430
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	49
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	49
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	49
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3332
Span 1	Near Bearing 1	Other Bearing	Other Bearings	1
Span 1	Far Bearing 1	Other Bearing	Other Bearings	1
Span 1	Near Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 5	Other Bearing	Other Bearings	1
Span 1	Near Bearing 5	Other Bearing	Other Bearings	1
Span 1	Near Bearing 6	Other Bearing	Other Bearings	1
Span 1	Far Bearing 6	Other Bearing	Other Bearings	1
Span 1	Far Bearing 7	Other Bearing	Other Bearings	1
Span 1	Near Bearing 7	Other Bearing	Other Bearings	1
Span 1	Near Bearing 8	Other Bearing	Other Bearings	1
Span 1	Far Bearing 8	Other Bearing	Other Bearings	1
Span 1	Far Bearing 9	Other Bearing	Other Bearings	1
Span 1	Near Bearing 9	Other Bearing	Other Bearings	1
Span 1	Far Bearing 10	Other Bearing	Other Bearings	1
Span 1	Near Bearing 10	Other Bearing	Other Bearings	1
Span 1	Near Bearing 11	Other Bearing	Other Bearings	1
Span 1	Far Bearing 11	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4025
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	58

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	58
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 2	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	77
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3910
Span 2	Near Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 2	Other Bearing	Other Bearings	1
Span 2	Near Bearing 2	Other Bearing	Other Bearings	1
Span 2	Near Bearing 3	Other Bearing	Other Bearings	1
Span 2	Far Bearing 3	Other Bearing	Other Bearings	1
Span 2	Far Bearing 4	Other Bearing	Other Bearings	1
Span 2	Near Bearing 4	Other Bearing	Other Bearings	1
Span 2	Near Bearing 5	Other Bearing	Other Bearings	1
Span 2	Far Bearing 5	Other Bearing	Other Bearings	1
Span 2	Far Bearing 6	Other Bearing	Other Bearings	1
Span 2	Near Bearing 6	Other Bearing	Other Bearings	1
Span 2	Near Bearing 7	Other Bearing	Other Bearings	1
Span 2	Far Bearing 7	Other Bearing	Other Bearings	1
Span 2	Far Bearing 8	Other Bearing	Other Bearings	1
Span 2	Near Bearing 8	Other Bearing	Other Bearings	1
Span 2	Near Bearing 9	Other Bearing	Other Bearings	1
Span 2	Far Bearing 9	Other Bearing	Other Bearings	1
Span 2	Far Bearing 10	Other Bearing	Other Bearings	1
Span 2	Near Bearing 10	Other Bearing	Other Bearings	1
Span 2	Near Bearing 11	Other Bearing	Other Bearings	1
Span 2	Far Bearing 11	Other Bearing	Other Bearings	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4025
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 10	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	58
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 3	Expansion Joint at Bent 2	Standard Joint	Pourable Joint Seal	77

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3910
Span 3	Far Bearing 1	Other Bearing	Other Bearings	1
Span 3	Near Bearing 1	Other Bearing	Other Bearings	1
Span 3	Far Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 6	Other Bearing	Other Bearings	1
Span 3	Near Bearing 6	Other Bearing	Other Bearings	1
Span 3	Near Bearing 7	Other Bearing	Other Bearings	1
Span 3	Far Bearing 7	Other Bearing	Other Bearings	1
Span 3	Far Bearing 8	Other Bearing	Other Bearings	1
Span 3	Near Bearing 8	Other Bearing	Other Bearings	1
Span 3	Near Bearing 9	Other Bearing	Other Bearings	1
Span 3	Far Bearing 9	Other Bearing	Other Bearings	1
Span 3	Near Bearing 10	Other Bearing	Other Bearings	1
Span 3	Far Bearing 10	Other Bearing	Other Bearings	1
Span 3	Far Bearing 11	Other Bearing	Other Bearings	1
Span 3	Near Bearing 11	Other Bearing	Other Bearings	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2975
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 6	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 7	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 8	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 9	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 10	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	43
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Expansion Joint at Bent 3	Standard Joint	Pourable Joint Seal	77
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2890
Span 4	Near Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 3	Other Bearing	Other Bearings	1
Span 4	Far Bearing 3	Other Bearing	Other Bearings	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 4	Far Bearing 4	Other Bearing	Other Bearings	1
Span 4	Near Bearing 4	Other Bearing	Other Bearings	1
Span 4	Near Bearing 5	Other Bearing	Other Bearings	1
Span 4	Far Bearing 5	Other Bearing	Other Bearings	1
Span 4	Far Bearing 6	Other Bearing	Other Bearings	1
Span 4	Near Bearing 6	Other Bearing	Other Bearings	1
Span 4	Near Bearing 7	Other Bearing	Other Bearings	1
Span 4	Far Bearing 7	Other Bearing	Other Bearings	1
Span 4	Far Bearing 8	Other Bearing	Other Bearings	1
Span 4	Near Bearing 8	Other Bearing	Other Bearings	1
Span 4	Near Bearin 9	Other Bearing	Other Bearings	1
Span 4	Far Bearing 9	Other Bearing	Other Bearings	1
Span 4	Far Bearing 10	Other Bearing	Other Bearings	1
Span 4	Near Bearing 10	Other Bearing	Other Bearings	1
Span 4	Near Bearing 11	Other Bearing	Other Bearings	1
Span 4	Far Bearing 11	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	82
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	74
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110173 **Inspection Date:** 10/25/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**5**
Item 59: Superstructure	0 - 9 , N	**4**
Item 60: Substructure	0 - 9 , N	**4**
Item 61: Channel and Channel Protection	0 - 9 , N	**N**
Item 62: Culvert	0 - 9 , N	**N**
Item 71: Waterway Adequacy	0 - 9 , N	**N**
Item 72: Approach Roadway Alignment	0 - 9 , N	**8**

Note:

Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see cover sheet.

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**P**	**14455**	**3376**
Drainage System	G, F, P, or C	**P**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation				
Drift	G, F, P, or C		**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Superstructure Paint Code		**I**		

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**16**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 110173 **Inspection Date:** 10/25/2023

Item	Superstructure - Item 59	**Grade**	4	**Maint Code**		**Qty.**	0
Details	superstructure rated 4 due to advanced corrosion with section loss with some corrosion holes at beam ends in all spans						

Item	Substructure - Item 60	**Grade**	4	**Maint Code**		**Qty.**	0
Details	substructure rated 4 due to delaminations and spalls with exposed rebar (rebar has up to 30 percent section loss)						

Item	Deck Debris	**Grade**	P	**Maint Code**	3376	**Qty.**	14455
Details	along both curblines, debris accumulation (1 foot wide x full length); partially obstructing deck drainage						

Item	Drainage System	**Grade**	P	**Maint Code**	3332	**Qty.**	0
Details	see deck debris						

Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	(PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)						
	(PAR) southeast guardrail attachment, improper lap						
	(PAR) northwest guardrail attachment, improper lap						
	(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)						
	(PAR) along end bent 1 slope protection, homeless debris (full length) inhibiting inspection access						
	(PAR) along end bent 2 slope protection, homeless debris with inhabitants (full length) inhibiting inspection access						
	guardrail at northwest end terminal has been fixed since last inspection. wood posts and spacer blocks have been replaced						

(PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)

(PAR) southeast guardrail attachment, improper lap

Span 1 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)

Span 1 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)

Span 1 Wearing Surface: left shoulder of asphalt over end bent 1, pothole/broken asphalt [6 foot x 8 inch x up to 1 inch deep]

Span 1 Wearing Surface: 7 foot long x 16 foot wide x 1 inch deep failed/depressed patch in center of southbound lane near end bent 1

Span 1 Left Bridge Rail: (PAR) impact damage to rail bracket of fourth post

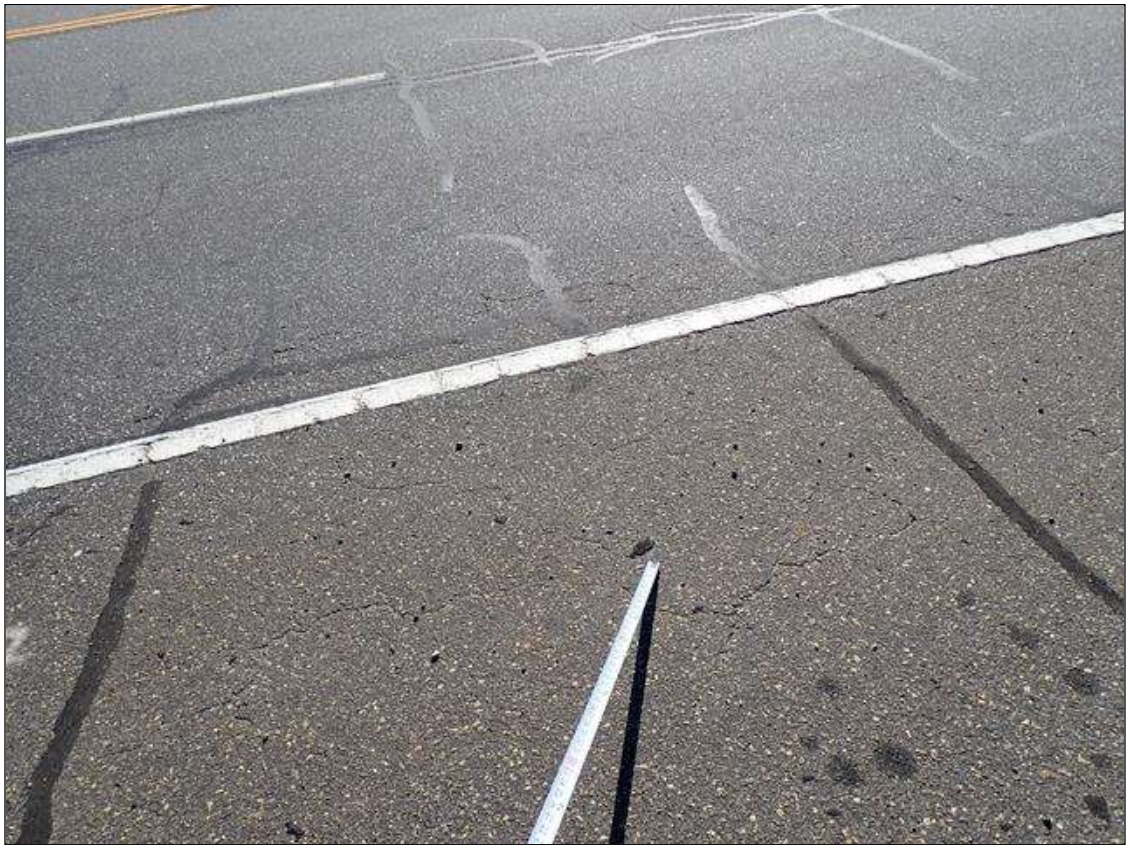
Span 2 Expansion Joint at Bent 1: southbound turn lane, missing seal material (2 foot x 9 inch x full depth)

Span 1 Left Bridge Rail: along the length of parapet, vertical cracks (up to 1/32 x full height) at random

along both curblines, debris accumulation (1 foot wide x full length); partially obstructing deck drainage

Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact

Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact



Span 2 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)

Span 2 Wearing Surface: at right Southbound lane adjacent to joint over bent 2, unsound patch/pothole [32 inch x 10 inch x full depth]

Span 3 Expansion Joint at Bent 2: along the length of the joint, adhesion loss (up to 1/8 inch wide x 2.5 foot x 3/4 inch deep) at random

Span 3 Expansion Joint at Bent 2: along the length of the joint, adhesion loss (up to 1/8 inch wide x 2.5 foot x 3/4 inch deep) at random

Span 3 Left Bridge Rail: along the length of parapet, vertical cracks (up to 1/32 x full height) at random

Span 3 Right Bridge Rail: adjacent to rail post 6, hairline map cracking

Span 4 Expansion Joint at Bent 3: along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random

Span 4 Expansion Joint at Bent 3: along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random

Span 4 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/8 inch x 40 foot)

Span 4 Left Bridge Rail: at end bent 2, (2) spalls (up to 5 inch x 4 inch x 1.5 inch deep) exposed reinforcement. no measureable section loss.

(PAR) northwest guardrail attachment, improper lap

(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)

(PAR) along end bent 2 slope protection, homeless debris with inhabitants (full length) inhibiting inspection access

End Bent 1 Cap 1: scattered along length of cap, multiple vertical cracks [15 inch long x up to 1/32 inch]

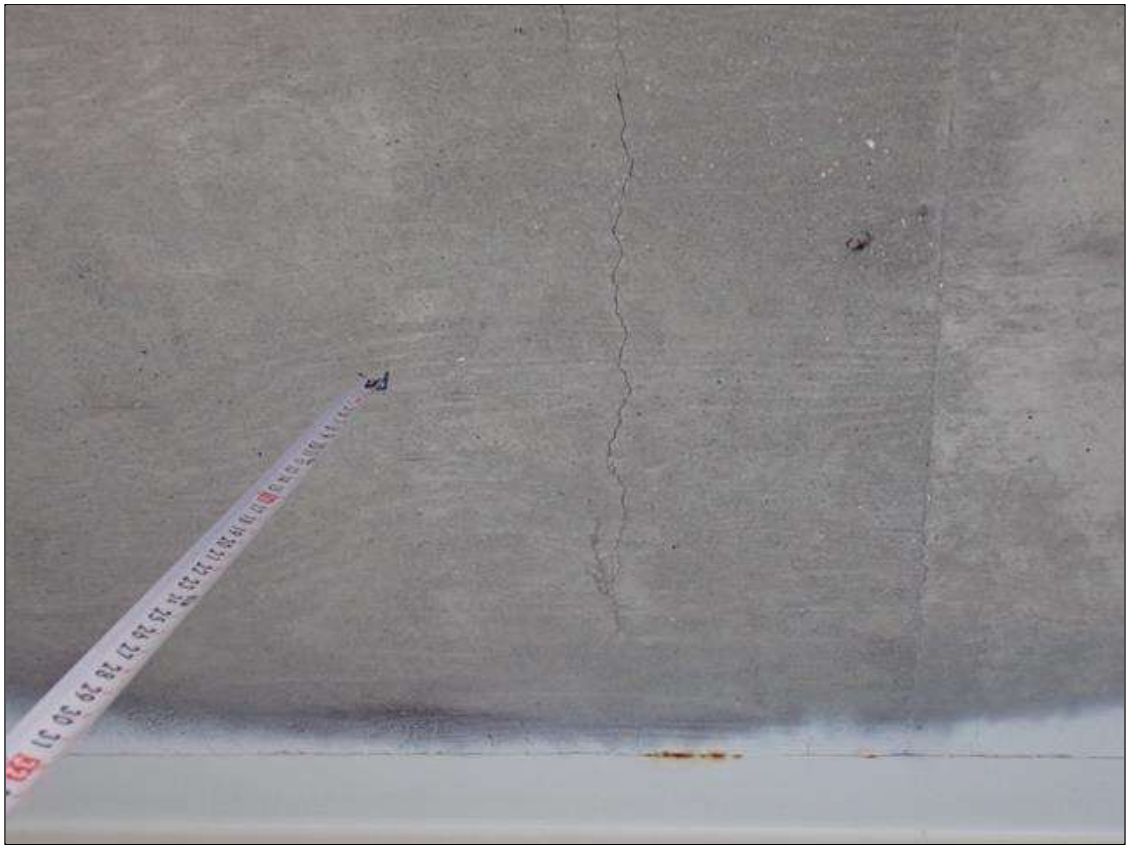
End Bent 1 Cap 1: 11 inch high x 7 inch wide x up to 1 inch deep spall with exposed rusted rebar in north face of cap at beam 4.

End Bent 1 Cap 1: west end, map cracks (hairline x 1.5 foot x full height)

Span 1 Near Bearing 2: surface rust/rust scale

End Bent 1 Abutment: along the length of the abutment, adjacent to beam bottom flanges, spall/delaminations (up to 9 inch x 4 inch x 4 inch deep) with cracks (up to 1/8 inch)

End Bent 1 Abutment: along the length of the abutment, adjacent to beam bottom flanges, spall/delaminations (up to 9 inch x 4 inch x 4 inch deep) with cracks (up to 1/8 inch)



Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random

Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random

Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random

Span 1 Deck: (PAR) 6 inch diameter x 1/2 inch deep spall with exposed reinforcement in bay 4 near end bent 1

Span 1 Deck: (2) up to 2 foot wide x 12 inch long areas of delamination in deck underside, bay 3, near midspan.

Span 1 Deck: (2) up to 2 foot wide x 12 inch long areas of delamination in deck underside, bay 3, near midspan.

Span 1 Deck: (PAR) 6 inch diameter x 1 inch deep spall with exposed reinforcement. no measurable section loss. 18 inch long x 12 inch wide area of delamination along beam 8 top flange, in bay 7, at midspan.

Span 1 Deck: left overhang, at bent 1, delamination (2 foot x 6 inch)

Span 1 Deck: underside of deck, bay 2, at end bent 1 and midspan, (2) delaminations (up to 3 foot x 1 foot)

Span 1 Deck: underside of deck, bay 2, at end bent 1 and midspan, (2) delaminations (up to 3 foot x 1 foot)

(PAR) along end bent 1 slope protection, homeless debris (full length) inhibiting inspection access

Span 2 Beam 3: (PAR) 10 inch long x up to 2 inch high x 5/16 inch section remaining in the web at beam end at bent 1, spot rust present

Span 1 Beam 4: (PAR) 8 inch long x full flange width x 0.55 inch remaining thickness in bottom flange with corrosion reactivating at bent 1

Span 1 Beam 4: at bent 1, painted over pitting up to 1/16 inch x 12 inch x 7 inch with corrosion reactivating

Span 1 Beam 4 - Far Bearing 4: arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.

Span 2 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch) with corrosion reinitiated

Span 2 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch) with corrosion reinitiated

Span 2 Beam 4 - Near Bearing 4: active pack rust and section loss in masonry plate and sole plate. 75 percent section remaining

Bent 1 Cap 1: 35 inch long x 16 inch high x up to 1.5 inch deep area of delamination and spall in north face at beam 4 with exposed reinforcement. no measurable section loss.

Span 2 Beam 4: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 4 and 5 at bent 1. 75 percent section remaining in the exposed reinforcement.

Span 1 Beam 5: (PAR) 10 inch long x 3 inch high x 3/16 inch average remaining in the web with 3 inch long x 1.5 inch corrosion hole under the diaphragm at bent 1

Span 2 Beam 5: (PAR) active corrosion with section loss 10 inch long x 3 inch high x 1/4 inch average remaining in the web with 3 inch long x 1.25 inch high corrosion hole under the diaphragm at bent 1

Bent 1 Cap 1: north face, below beam 5, delamination/spall [4 foot x 1 foot x 1/2 inch]

Span 2 Beam 5: (PAR) 7 foot long x 10 inch high x 3 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 5 and 6 at bent 1. 70 percent section remaining in the exposed reinforcement

Span 2 Beam 6: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 54 inch x 13 inch); bottom flange (0.56 inch average remaining x 2 foot) with corrosion reinitiated

Span 1 Beam 6: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 3 foot x 8 inch); bottom flange (0.42 inch average remaining x 20 inch) with corrosion reinitiated

Span 1 Beam 6 - Far Bearing 6: active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining. west anchor bolt nut 60 percent remaining.

Span 2 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [20 inch long x 13 inch high x 1/4 inch average remaining] with multiple corrosion holes up to [3 inch x 1 inch]

Span 2 Beam 7: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spalling, delamination with the exposed reinforcement in the concrete diaphragm between beams 7 and 8 at bent 1. 70 percent section remaining in the exposed reinforcement.

Span 1 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole

Span 1 Beam 8: (PAR) 18 inch long x up to 8 inch x 1/4 inch average remaining area of section loss in web at bent 1, spot rust present.

Bent 1 Cap 1: 5 foot long x 21 inch high area of delaminated concrete with cracks up to 1/16 inch between beams 7 and 8 in the north face of cap near top.

Span 2 Beam 8: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated

Span 2 Beam 8: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated

Bent 1 Cap 1: 1 foot long x full width of cap area of delaminated concrete with cracks up to 1/8 inch extends 1 foot into north face between columns 5 and 6.

Bent 1 Pile 4: North face at top of the column, delamination [31 inch x 10 inch wide] with cracks [up to 1/8 inch]

Bent 1 Pile 3: (PAR) 34 inch high x 10 inch wide x up to 2 inch deep spall with exposed rusted reinforcement.

Bent 1 Cap 1: (PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area

Bent 1 Cap 1: 5 foot x full width delamination with cracks up to 1/16 inch in the underside of the cap between columns 4 and 5. 1/16 inch wide vertical crack in the north face of the cap between columns 4 and 5.

Bent 1 Cap 1: 15 foot long x 12 inch delamination with cracks up to 1/8 inch between beams 5 and 7 on south face of the cap.

Span 2 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random

Span 2 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random

Bent 2 Pile 7: north and west faces, map cracks (hairline x 1 foot x full width)

Bent 2 Pile 5: 3 foot from ground, west and south faces, (2) spalls/delaminations (up to 1 foot x 19 inch x 1.5 inch deep) with exposed rusted rebar

Bent 2 Pile 5: (PAR) Southwest corner below cap, delamination/spall [7 foot high x up to full width x up to 3 inch deep] with two exposed rusted reinforcing, 70 percent section remaining in the exposed reinforcement.

Bent 2 Pile 4: below cap, northeast and southeast corners, (2) delaminations (up to 3.5 foot x 10 inch) with cracks (1/4 inch)

Bent 2 Pile 4: below cap, northeast and southeast corners, (2) delaminations (up to 3.5 foot x 10 inch) with cracks (1/4 inch)

Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars

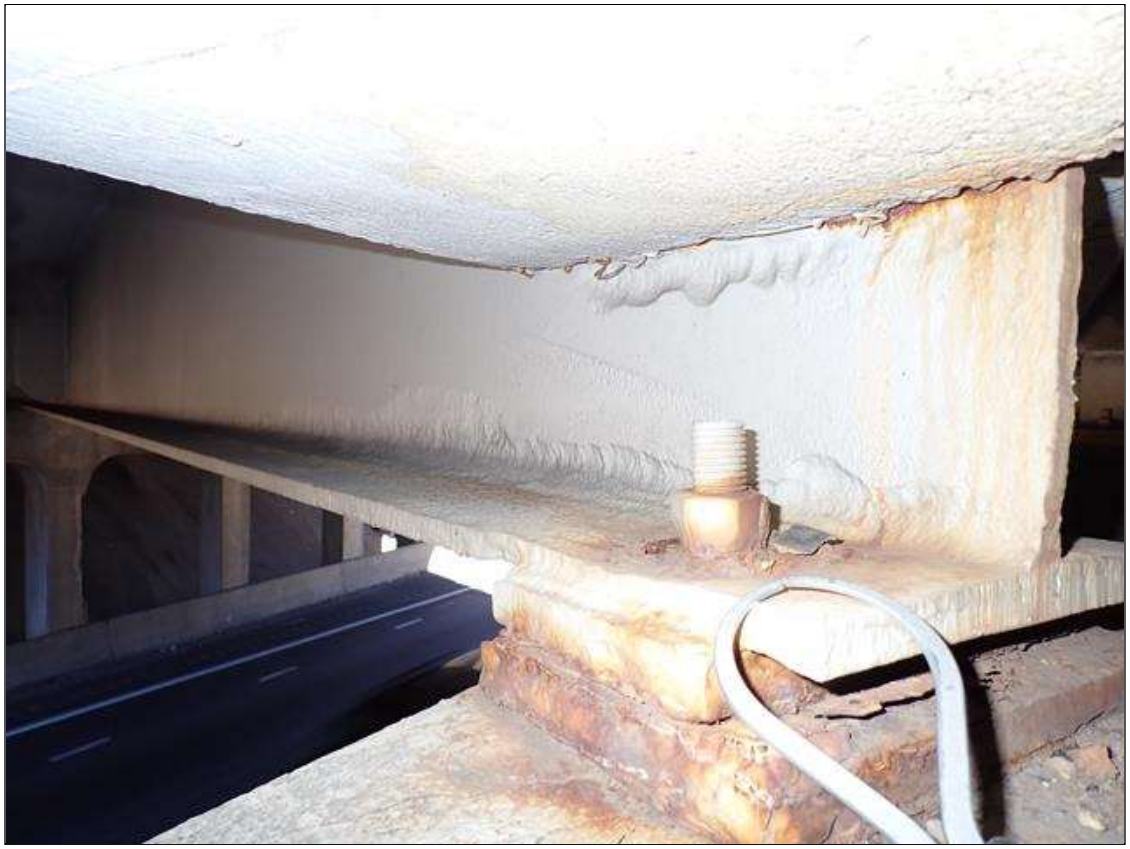
Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars

Bent 2 Pile 3: southwest corner, below cap, spall/delamination (36 inch x 10 inch x 1 inch deep)

Bent 2 Pile 3: (PAR) Southeast corner 5 foot from the ground, delamination/spall [28 inch wide x 9.5 foot x up to 4 inch deep] with [1] primary exposed rusted reinforcing [75 percent remaining]

Span 3 Beam 1: at bent 2, web, rust scale (10 inch)

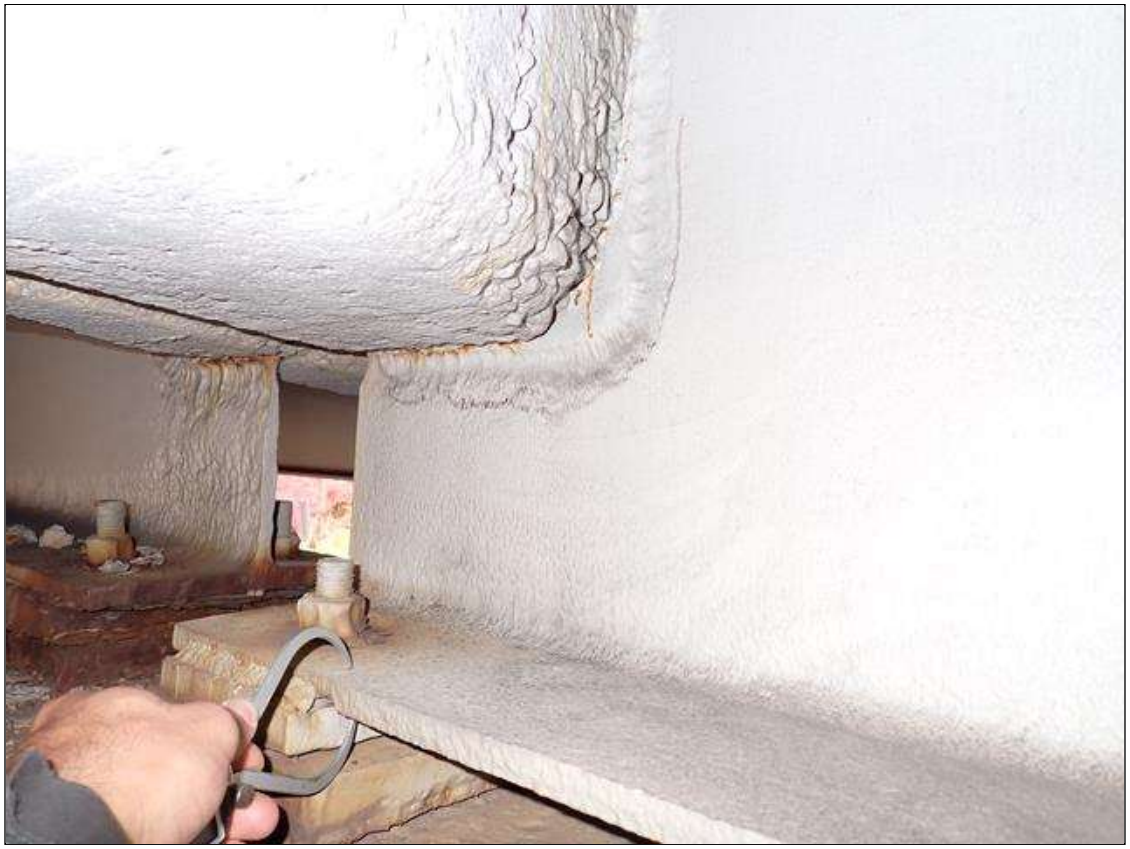
Span 2 Beam 4: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 2.5 foot), lower web (5/16 inch average remaining x 27 inch x 2 inch), web adjacent to diaphragm (1/4 inch average remaining x 11 inch x 3 inch) with corrosion reinitiated



Span 3 Beam 4: (PAR) at bent 2, painted over section loss: bottom flange (0.56 inch average remaining x 9 inch), lower web (3/16 inch average remaining x 6 foot x 2 inch), web adjacent to diaphragm (3/16 inch average remaining x 12 inch x 2 inch) with corrosion reinitiated

Bent 2 Cap 1: (PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar

Span 2 Beam 5: (PAR) up to 4.5 foot long x 4 inch high x 3 inch deep spalls in south and bottom with exposed rusted reinforcement with up to 1/16 inch section loss, in the diaphragm between beams 4 and 5.



Span 2 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); web adjacent to diaphragm (3/16 inch average remaining x 11 inch x 8 inch) with corrosion reinitiated

Span 2 Beam 5 - Far Bearing 5: painted over section loss (up to 1/8 inch loss) on masonry plate and sole plate

Span 3 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with hole (1.5 inch x 1 inch) with corrosion reinitiated

Span 3 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with hole (1.5 inch x 1 inch) with corrosion reinitiated

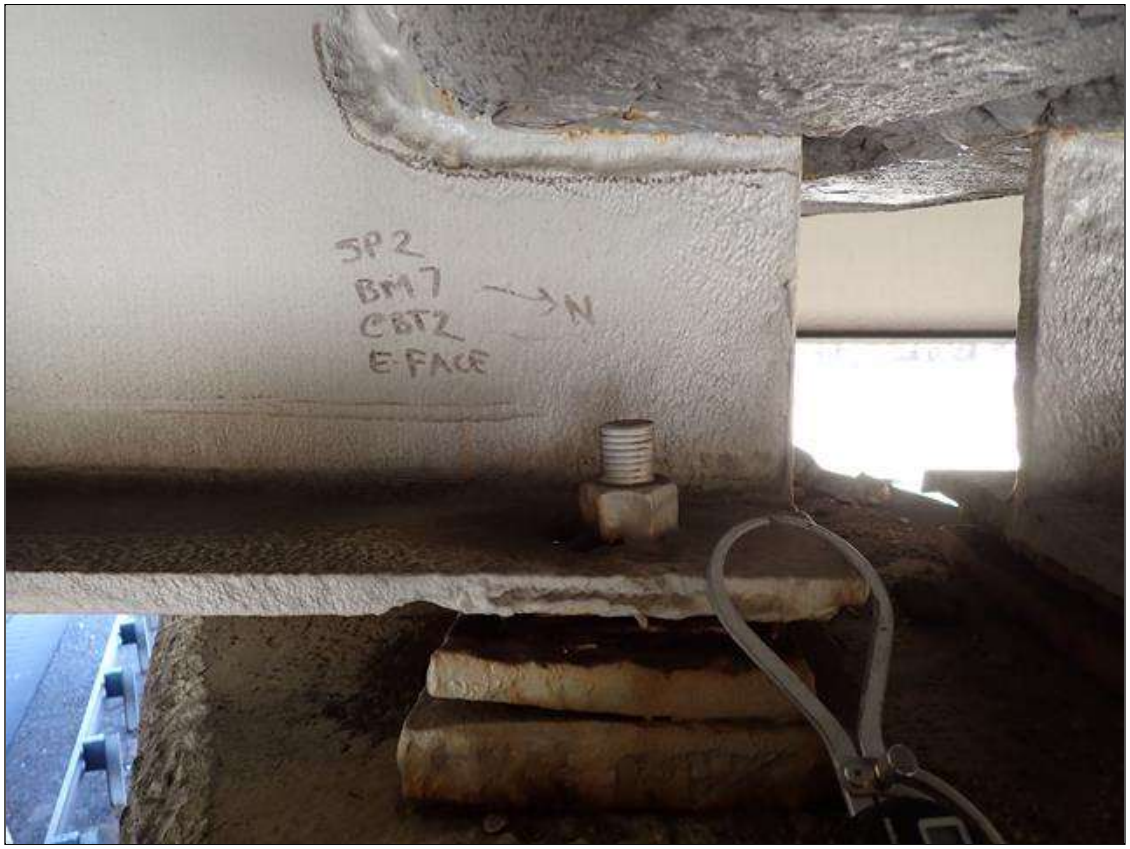
Bent 2 Cap 1: 4 foot x up to 20 inch x 1 inch deep high area of delaminated concrete in south face between beams 4 and 5.

Span 2 Beam 6: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 10.5 inch x 2.5 inch) with corrosion hole (1.5 inch x 1/2 inch); lower web (3/8 inch average remaining x 5.5 inch x 1 inch) with corrosion reinitiated

Span 2 Beam 6: (PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.

Span 3 Beam 6: (PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot) with corrosion reinitiated

Bent 2 Cap 1: (PAR) south face, in bay 6, spall/delamination (8 foot x 4 foot x 1.5 inch deep) with exposed rusted rebar (approximately 75 percent remaining) and cracks (up to 1/16 inch)



Span 2 Beam 7: (PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); lower web (3/8 inch average remaining x 5 inch x 1 inch); web adjacent to diaphragm (3/16 inch average remaining x 10 inch x 3 inch)

Span 2 Beam 7: (PAR) 2 foot x 4 inch x 3 inch deep spall with exposed rusted and debonded reinforcement on south face of end diaphragm, at bent 2

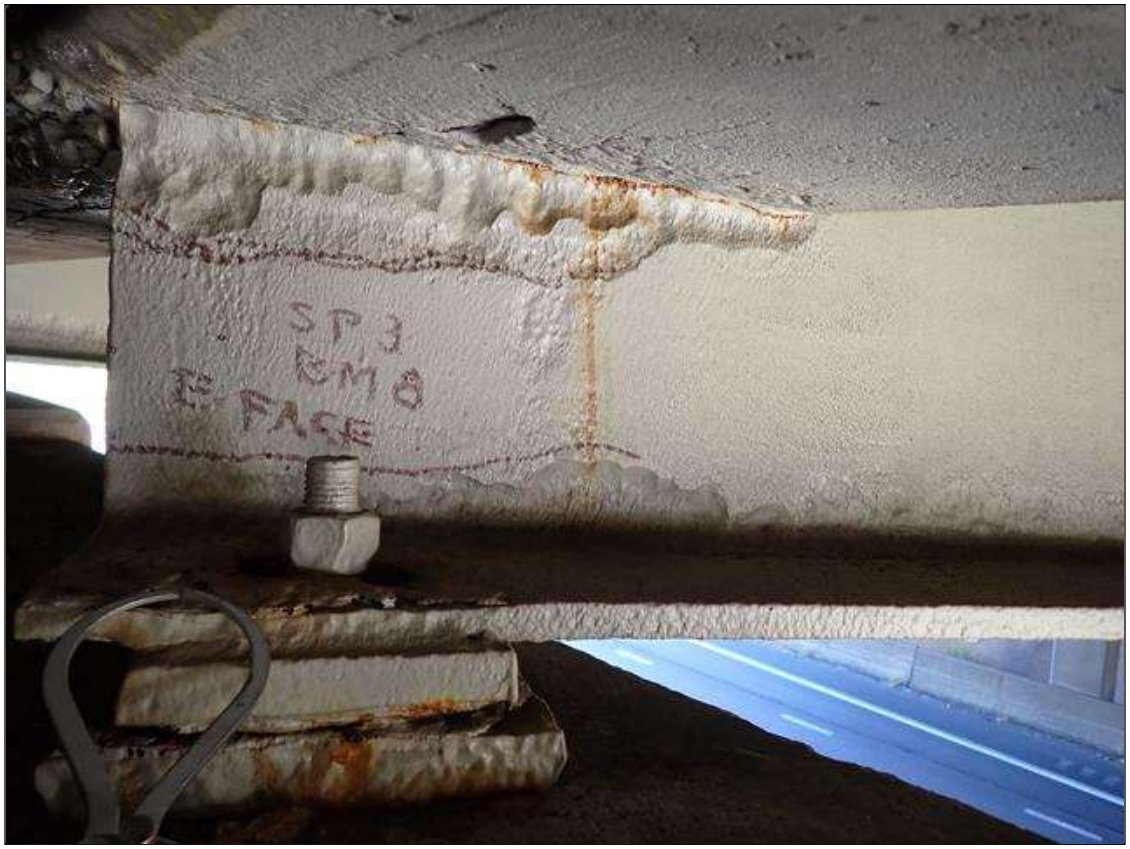
Span 3 Beam 7: (PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 4.5 foot x 16 inch)

Span 3 Near Bearing 7: (PAR) east weld between sole and bottom flange, broken

Bent 2 Cap 1: 4 foot long x 18 inch x 1 inch high spall/delamination concrete in south face near the top between beams 7 and 8.

Span 2 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 14 inch x 8 inch); lower web (7/16 inch average remaining x 2 foot x 3 inch)

Span 2 Beam 8 - Far Bearing 8: [PAR] West face anchor bolt not visible within nut



Span 3 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch) with corrosion reinitiated

Bent 2 Cap 1: [PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining

Bent 2 Cap 1: between columns 3 and 4, 4 foot long x full width delamination in the bottom face extending into vertical faces of concrete

Bent 2 Cap 1: (PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6

Bent 2 Cap 1: 10 foot x 1/16 inch horizontal crack in north face of cap under bays 5 and 6

Bent 2 Cap 1: under beam 5, spall [14 inch x 4 inch x 1 inch deep] with coarse aggregate exposed, undermining bearing 1/2 inch

Span 3 Near Bearing 5: (PAR) loss of bearing area (up to 1/2 inch x 3 inch)

Span 3 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)

Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 5.5 foot x 10 inch) with corrosion holes (up to 1 inch x 1/2 inch); bottom flange (0.45 inch average remaining x 4 foot)

Span 3 Beam 5: (PAR) at bent 3, painted over section loss: bottom flange (0.45 inch average remaining x 1 foot); web (1/4 in average remaining x 2 foot x 9 inch) with corrosion reinitiated

Span 3 Beam 5: 7 foot x 4 inch delamination with cracks up to 1/8 inch in south face end diaphragm at bent 3

Span 4 Beam 5: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 6 foot x 1 foot) with corrosion holes (6 inch x 1.5 inch); bottom flange (0.56 inch average remaining x 15 inch) with corrosion reinitiated

Span 3 Beam 6: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot) with corrosion reinitiated

Span 3 Beam 6 - Far Bearing 6: corrosion has been arrested when painted, 75 percent section remaining in masonry and sole plate. west anchor bolt nut has 20 percent section remaining

Span 4 Beam 6: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 32 inch x 12 inch) with corrosion reinitiated

Span 3 Beam 7: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated

Span 3 Far Bearing 7: arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.

Span 4 Beam 7 - Near Bearing 7: arrested corrosion and section loss in masonry plate and sole plate. 80 percent section remaining. both anchor bolt nuts have up to 40 percent section remaining

Span 4 Beam 7: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch) with corrosion reinitiated

Span 4 Beam 7: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch) with corrosion reinitiated

Span 3 Beam 8: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch) with corrosion reinitiated

Span 3 Beam 8 - Far Bearing 8: corrosion has been arrested when painted, up to 75 percent section remaining in masonry and sole plate. west anchor bolt nut has up to 80 percent section remaining.

Span 3 Beam 8: (PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.

Span 4 Beam 8: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) with corrosion reinitiated

Span 4 Beam 8 - Near Bearing 8: corrosion has been arrested when painted, 75 percent section remaining in masonry plate and sole plate. both anchor bolt nuts have up to 50 percent section remaining.

Span 3 Beam 11: 2023 new repair (beam heat straightened and coverplate rewelded); previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2 inch lateral up to 1/2 inch with broken cover plate weld [10 inch long]. new area of impact damage 6 inch long x 2 inch high at 13 foot-5 inch out from interior. bent 3 . with the bottom cover plate being broken loose from bottom flange 10 inch long x 2 inch deep . there are also two older 1/2 inch indentions in the same area . Beam 11 is swept westward up to 1 1/2 inch. (par) there is a 2 inch diameter torch cut hole at both ends of of the 6 foot length .

Span 3 Beam 10: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/2 inch deep at 18 foot-8 inch from interior. bent 3 . scattered scrapes along the web .

Span 3 Beam 9: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/4 inch deep at 18 foot-7 inch from interior. bent 3

Span 3 Beam 8: over right westbound lane, impact scrapes with distortion

Span 3 Beam 7: over right westbound lane, impact scrapes

Span 3 Beam 7: multiple up to 3 foot long horizontal 1/8 inch wide cracks in end diaphragm between beams 7 and 8 at bent 2 starting at beam 8

Span 3 Deck: at bent 3, both overhangs, (2) delaminations (up to 1.5 foot x 6 inch)

Span 3 Beam 11: at bent 3, top flange, surface rust/rust scale (1 foot)

Span 3 Beam 6: spall/delamination 7 foot x 10 inch x 2 inch deep with exposed rusted rebar in north face of end diaphragm between beams 6 and 7 at bent 2

Span 3 Beam 5: (PAR) 7 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 5 and 6 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.

Span 3 Beam 4: (PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.

Span 3 Beam 4: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: scattered scrapes

Span 3 Beam 3: 2023 new paint repair; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes

Span 3 Beam 2: 2023 new paint repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes

Span 3 Beam 1: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes

Span 4 Beam 4: 7 foot long x 8 inch wide x 4 inch along north face and 8 in along bottom face area of delamination and unsound concrete in end diaphragm at bent 3 between beams 4 and 5.

Span 4 Beam 5: 4 foot x 6 inch long x 8 inch wide x 5 inch along north and bottom faces area of delamination and unsound concrete in end diaphragm at bent 3 between beams 5 and 6.

Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.

Span 4 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) some with efflorescence at random

Span 4 Deck: 2 foot long x 6 inch wide x up to 1/2 inch deep area of delamination/spall in deck underside of bay 10, 15 foot from end bent 2.

Bent 3 Cap 1: 4 foot long x 8 inch high area of up to 1/16 inch wide cracks and delamination on north face under bay 5

Bent 3 Cap 1: North face under bay 7, delamination 6 foot long x up to 1 foot x 4 inch x 1 inch deep in and has up to 1/8 inch wide cracks

Bent 3 Cap 1: North face under beam 4, spall [1 foot x 6 inch x 1/2 inch deep] no undermining

Bent 3 Pile 3: 4 foot high x 12 inch wide area of delamination and unsound concrete in north face. similar condition in west face.

Bent 3 Pile 4: 3 foot high x 12 inch wide area of delamination and unsound concrete at northeast corner.

Bent 3 Pile 4: 29 inch wide x height varying from 18 inch to 45 inch area of delamination on west face. 3 foot high x 12 inch wide area of delamination in south face. 3 foot high x 12 inch wide area of delamination in north face.

Bent 3 Pile 5: 4 foot high x 16 inch wide area of delamination/spall and unsound concrete at northeast corner.

Bent 3 Cap 1: 5 foot x up to full height area of cracked delamination on south face of cap below beam 8

Bent 3 Cap 1: south face, in bays 4 and 5, multiple spalls/delaminations (up to 5 foot x 2 foot x 1.5 inch deep) with exposed rusted rebar

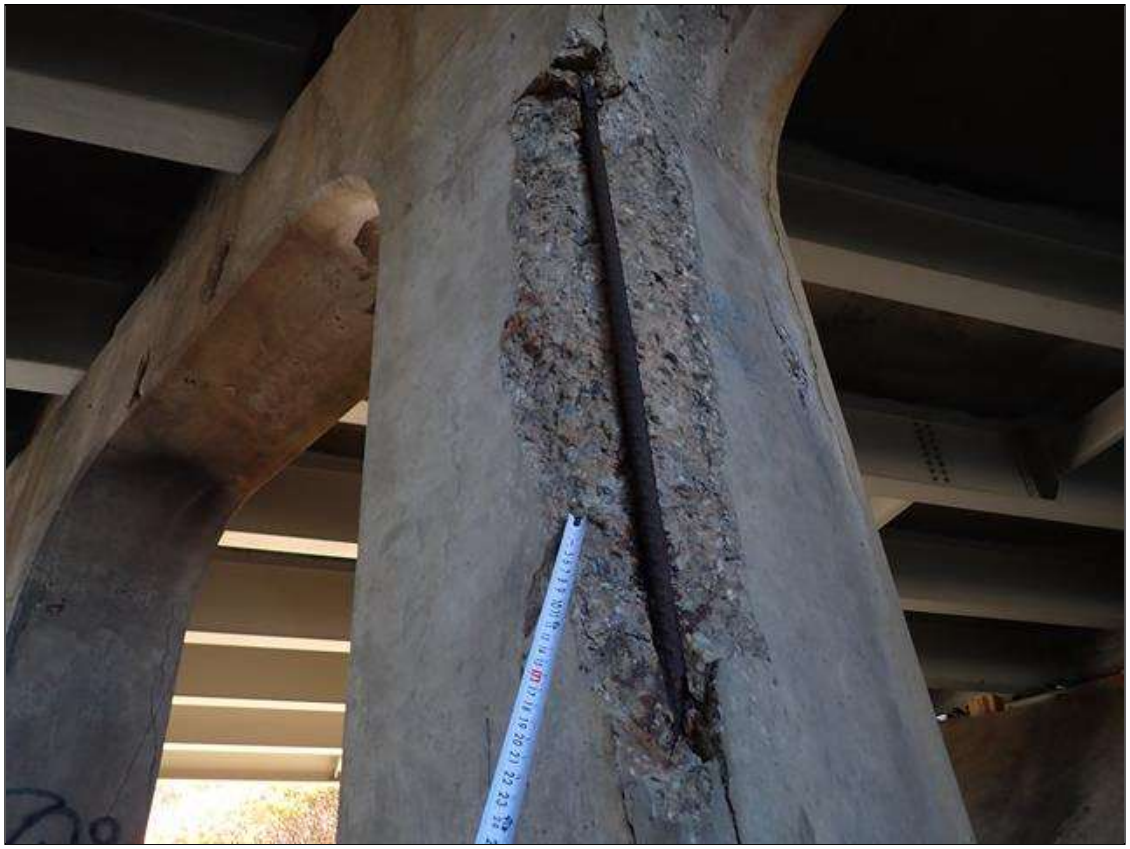
Bent 3 Cap 1: 12 inch high x 9 inch wide x 1.5 inch deep with exposed reinforcement under beam 7, south face. 90 percent section remaining in exposed reinforcement.

Bent 3 Cap 1: 10 inch x 5 inch x 1 inch deep spall with exposed reinforcement in south face between beams 6 and 7. 90 pecent section remaining in exposed reinforcement.

Bent 3 Cap 1: 12 inch x 4 inch x 1/2 inch deep spall with exposed reinforcement on east face of top radius at pile 5

Bent 3 Pile 3: east face 12 inch high x 6 inch wide x 1 inch deep spall with exposed reinforcement

Bent 3 Pile 3: (PAR) Southeast corner above barrier rail, spall/delamination [10 foot high x up to full width x up to 4 inch deep] with primary debonded exposed rusted reinforcing 75 percent remaining

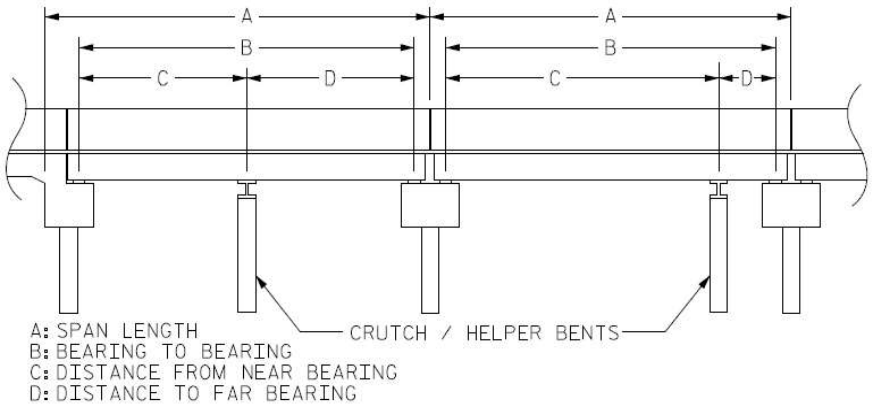


Bent 3 Pile 5: (PAR) 6.5 foot high x 20 inch wide x 3.5 inch deep spall and delaminated concrete with one debonded primary exposed reinforcement on south east corner of pile. 80 percent section remaining in exposed reinforcement.

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110173**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	49.000	47.000			
2	57.500	56.500			
3	57.500	56.500			
4	42.500	41.000			

Structure Number: 110173 Span: 2 Route Name: I 40 EB - LIDAR 05/30/13

roadway under span 2, looking east

Route Number: 1100040	**Route Name:** I 40 EB - LIDAR 05/30/13			**Reference Feature:** H
Minimum Vertical Clearance 16.060 feet	**Maximum Minimum Vertical Clearance** 16.360 feet			
Total Horizontal Clearance 42.650 feet	**Lateral Clearances: Left:** 12.250 feet **Right** 11.580 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 119.020	**Number of Lanes:** 2	**ADT:** 22500	**Year of ADT:** 2015	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Structure Number: 110173 Span: 3 Route Name: I 40 WB - LIDAR 05/30/13

roadway under span 3, looking west

Route Number: 1100040	**Route Name:** I 40 WB - LIDAR 05/30/13			**Reference Feature:** H
Minimum Vertical Clearance 14.770 feet	**Maximum Minimum Vertical Clearance** 14.950 feet			
Total Horizontal Clearance 43.270 feet	**Lateral Clearances: Left:** 13.280 feet **Right** 8.670 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 119.020	**Number of Lanes:** 2	**ADT:** 22500	**Year of ADT:** 2015	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Bridge Inspection Field Sketch

Roadway	17ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	5ft Wide	1ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			

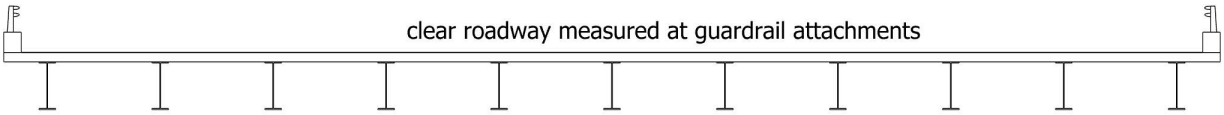
mesurements taken approximately 100 feet from end bent 1

Title	Description
APPROACH ROADWAY SKETCH	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110173	HABonilla	10/25/2023	S000906000258.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	70ft	Between Rails			68ft
Clear Roadway	67.44ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	12in	Right	12in
Top of Rail to Deck/Wearing Surface		Left	2.667ft	Right	2.667ft
Bridge Rail Type		Left	Type 1	Right	Type 1



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	6.5in	Left Overhang	2.5ft
Top of Rail to Bottom of Beam (Avg)	5.959ft	Right Overhang	2.5ft

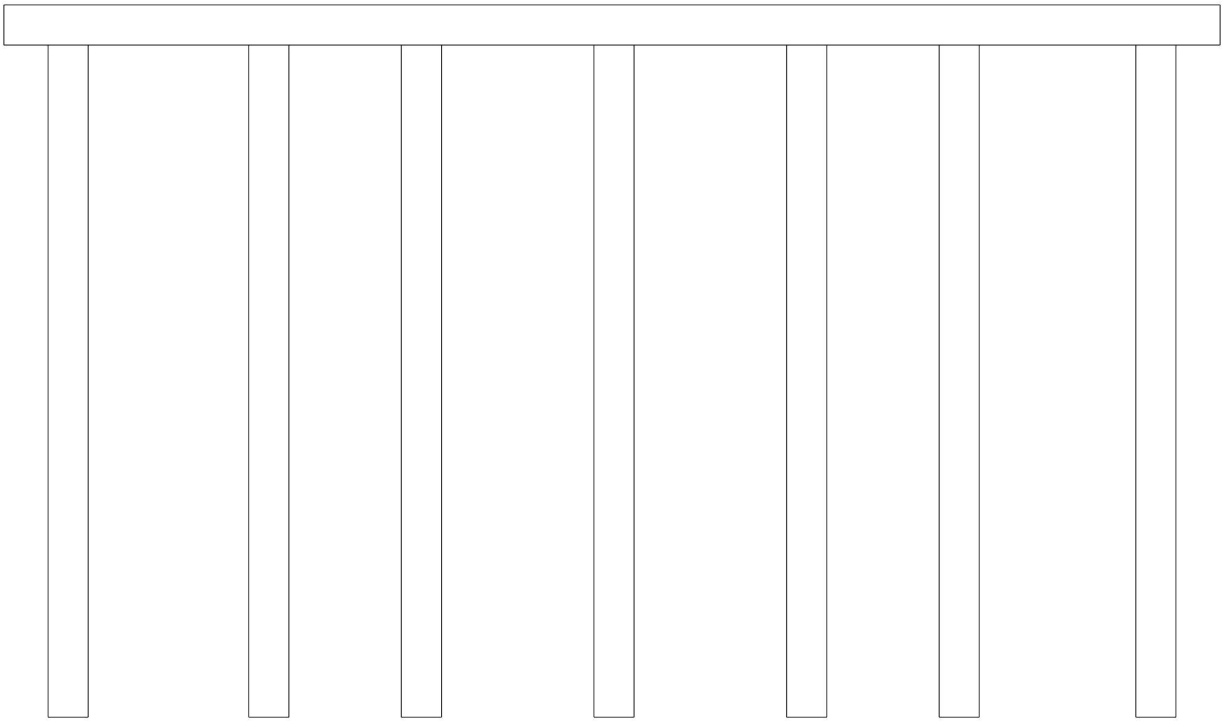
Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	11.5in	33in	2.5ft	Left Edge of Deck
2	Plate Girder	11.5in	33in	6.5ft	Beam 1
3	Plate Girder	11.5in	33in	6.5ft	Beam 2
4	Plate Girder	11.5in	33in	6.5ft	Beam 3
5	Plate Girder	11.5in	33in	6.5ft	Beam 4
6	Plate Girder	11.5in	33in	6.5ft	Beam 5
7	Plate Girder	11.5in	33in	6.5ft	Beam 6
8	Plate Girder	11.5in	33in	6.5ft	Beam 7
9	Plate Girder	11.5in	33in	6.5ft	Beam 8
10	Plate Girder	11.5in	33in	6.5ft	Beam 9
11	Plate Girder	11.5in	33in	6.5ft	Beam 10

BEAM DIMENSIONS: between flanges 31.5"; flanges 11.5" x 3/4" thick; web 1/2" thick
span 2 and 3 coverplates could not be field measured; refer to structure plans for dimensions

Title	Description
TYPICAL SECTION SKETCH	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110173	HABonilla	10/25/2023	S000906000259.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	75.75ft	30in	30in	2ft	2ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	16.25ft
2	Pile 2	Reinforced Concrete Column	12.5ft	Pile 1	30in	30in	16.25ft
3	Pile 3	Reinforced Concrete Column	9.5ft	Pile 2	30in	30in	16.25ft
4	Pile 4	Reinforced Concrete Column	12ft	Pile 3	30in	30in	16.25ft
5	Pile 5	Reinforced Concrete Column	12ft	Pile 4	30in	30in	16.25ft
6	Pile 6	Reinforced Concrete Column	9.5ft	Pile 5	30in	30in	16.25ft
7	Pile 7	Reinforced Concrete Column	12.25ft	Pile 6	30in	30in	16.25ft

Title	Description
BENT SKETCH	LOOKING NORTH

Structure No: 110173	Drawn By: HABonilla	Date: 10/25/2023	Filename: S000906000260.wes

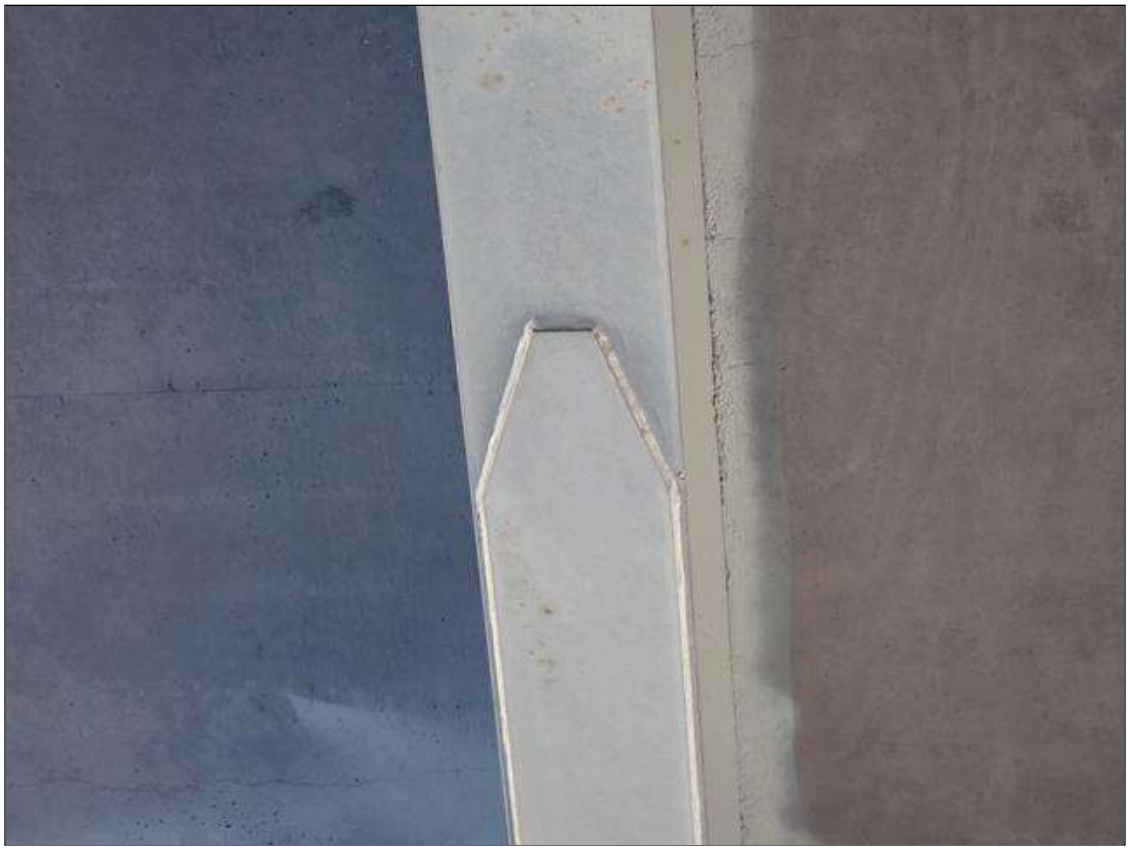
west profile looking east

roadway under span 2, looking east (I-40 eastbound)

bent 2

superstructure underside

intermediate diaphragm



typical coverplate termination (spans 2 and 3)

end bent 1 and slope protection

end bearing assembly

southwest wingwall

southeast wingwall

southeast guardrail attachment

southeast guardrail transition

southeast guardrail

southeast guardrail termination

south approach looking north

left bridge rail

right bridge rail

asphalt wearing surface

end bent 1 asphalt

bent 1 joint

south approach looking south

roadway looking east

bent 2 joint

bent 3 joint

end bent 2 asphalt

north approach looking south

northwest guardrail

northwest guardrail termination

northwest guardrail attachment

northwest guardrail transition

roadway looking west

north approach looking north

northwest wingwall

end bent 2 and slope protection

northeast wingwall

east profile looking west

roadway under span 3, looking west (I-40 westbound)

bent 3

bent 1

end diaphragm

bridge number

interior bearing assembly

beams over bent

ladder used